

NEW MILFORD RESERVOIR #4 DAM
IMPROVEMENTS PROJECT
CT DAM ID #9604
NEW MILFORD, CONNECTICUT
DECEMBER 2025

PROJECT OWNER:

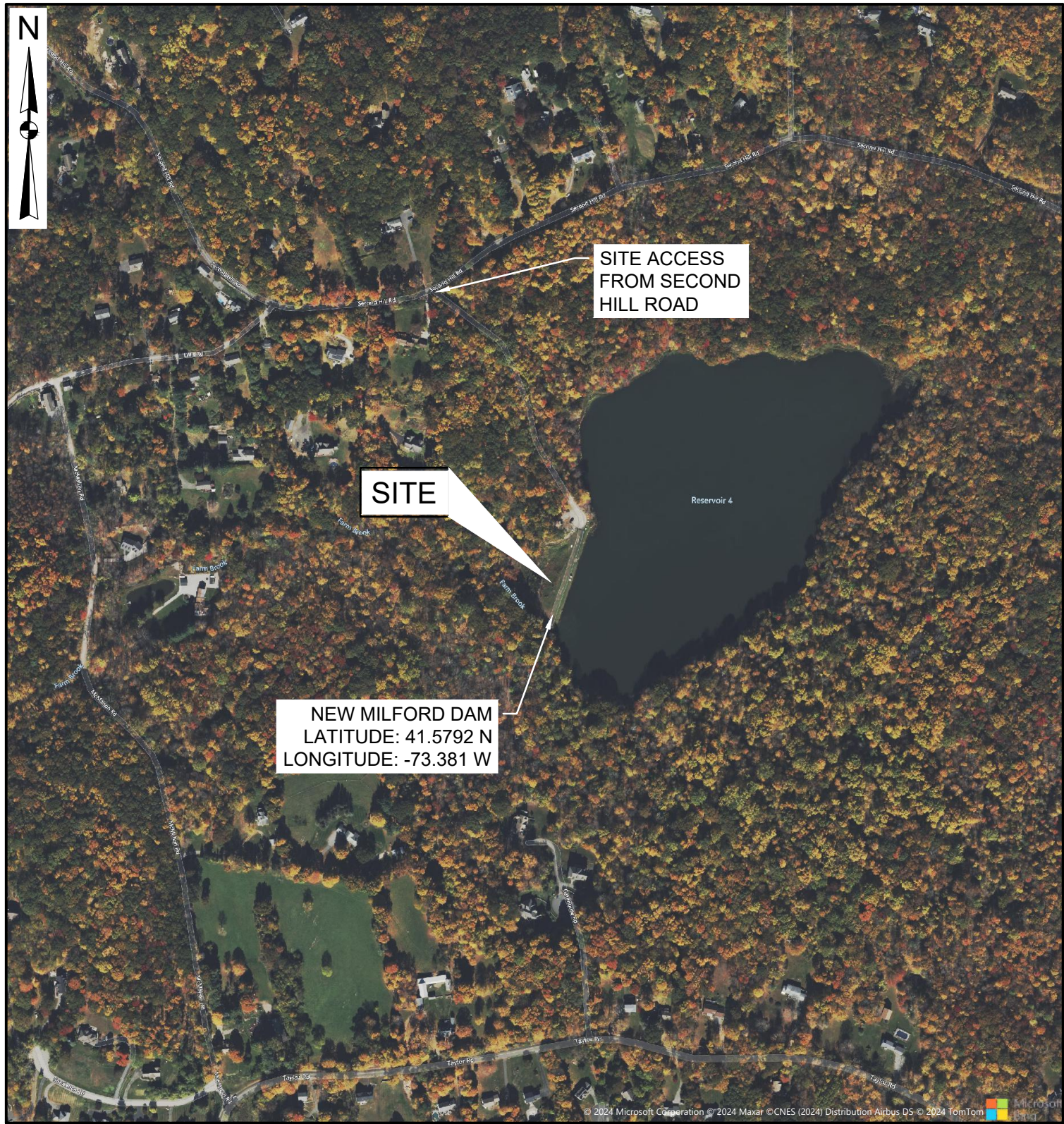
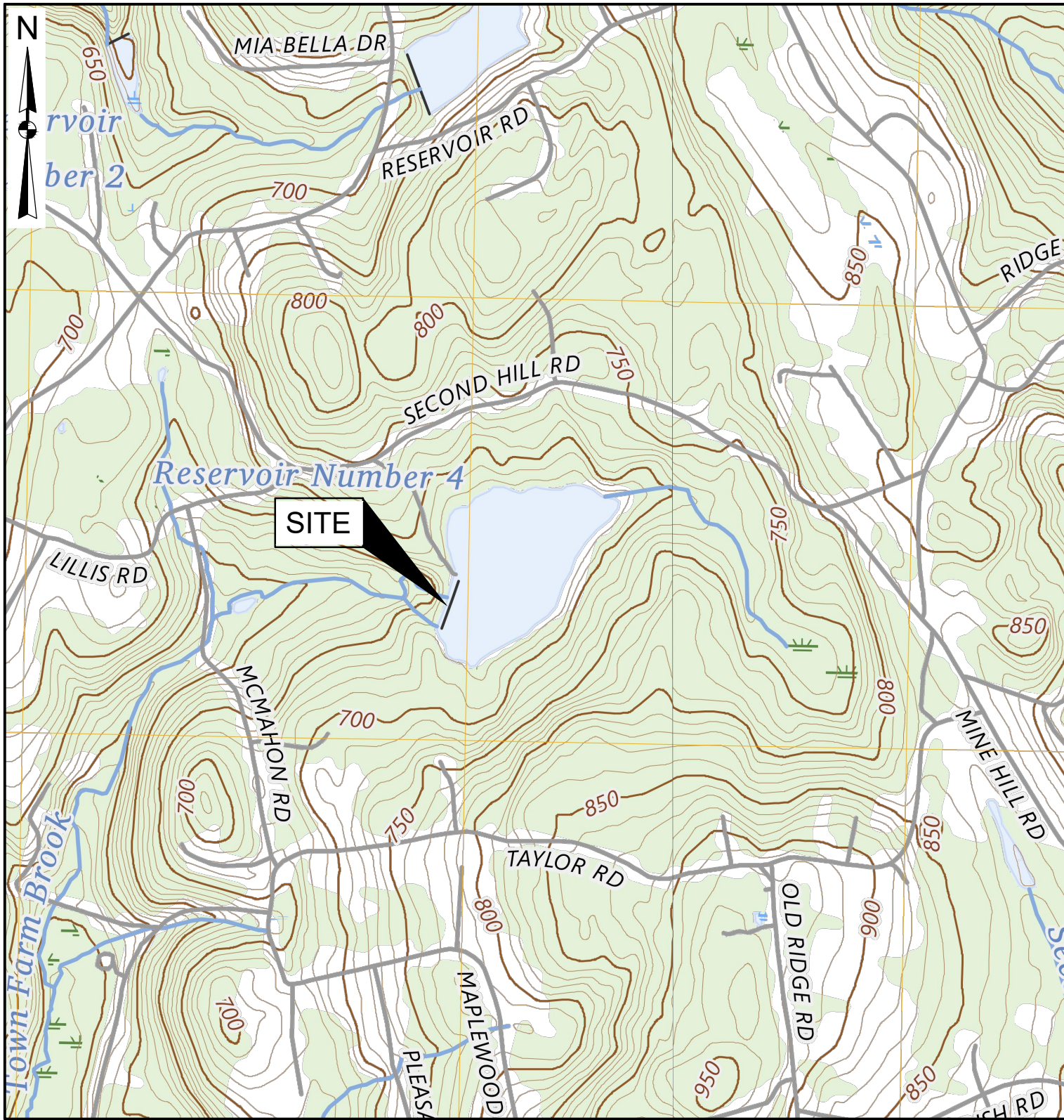


TOWN OF NEW MILFORD
10 MAIN STREET
NEW MILFORD, CONNECTICUT 06776

DESIGNED BY:



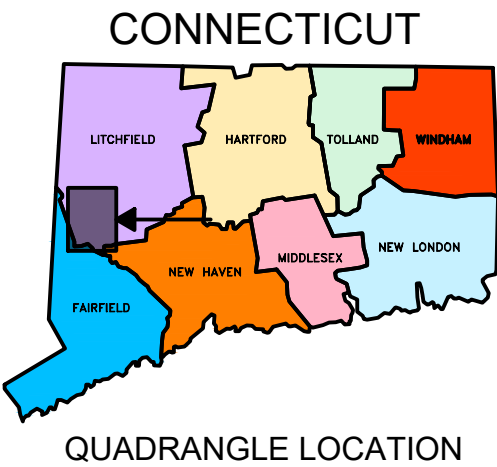
GZA GEOENVIRONMENTAL, INC.
95 GLASTONBURY BOULEVARD, 3RD FLOOR
GLASTONBURY, CONNECTICUT 06033



PROJECT LOCUS MAP

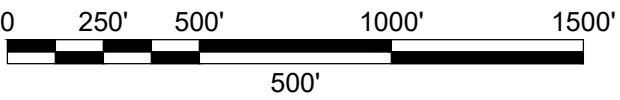


SOURCE: BASE MAP FROM THE FOLLOWING USGS QUADRANGLE MAPS:
ROXBURY & NEW MILFORD, CT (2024)
DIGITAL TOPOGRAPHIC MAPS PROVIDED BY USGSSTORE.GOV.
CONTOUR ELEVATIONS REFERENCE NAVD 88,
CONTOURS ARE SHOWN IN FEET AT 10 FOOT INTERVALS



QUADRANGLE LOCATION

PROJECT VICINITY MAP



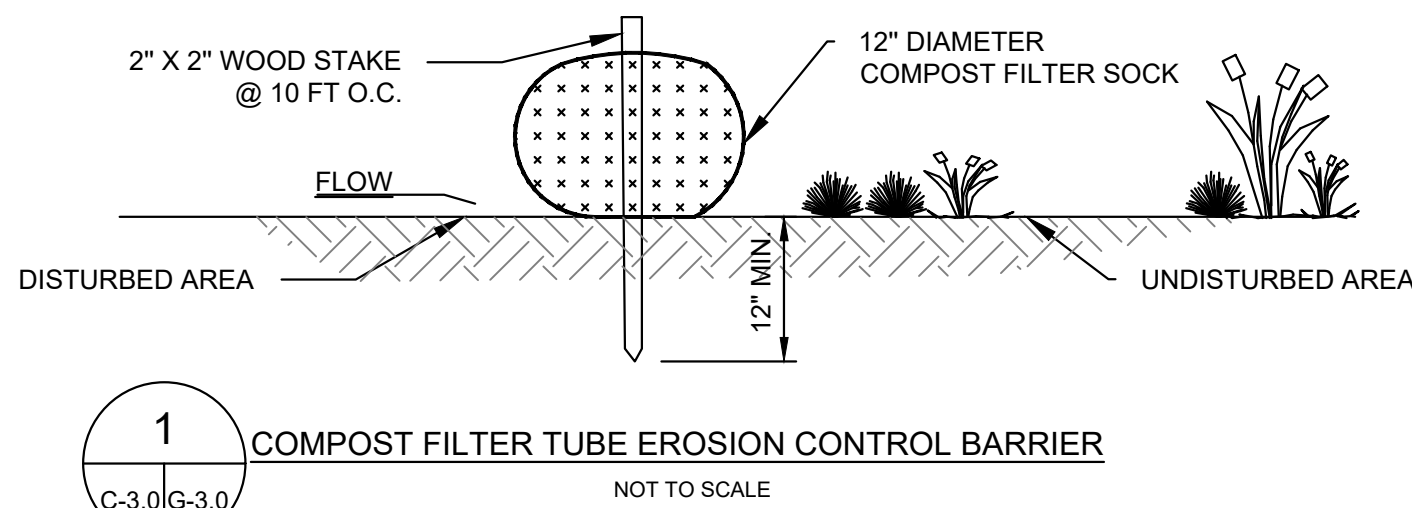
AERIAL BASE MAP DEVELOPED FROM AN ELECTRONIC
IMAGE FILE PROVIDED BY MICROSOFT CORPORATION /
DIGITAL GLOBE / CNES DISTRIBUTION AIRBUS DC IN 2018.

INDEX OF DRAWINGS

DRAWING NO.	DRAWING TITLE
GENERAL	
G-1.0	COVER SHEET AND DRAWING INDEX
G-2.0	NOTES
G-3.0	EROSION AND SEDIMENT CONTROL DETAILS
CIVIL	
C-1.0	PHASE I EXISTING CONDITIONS PLAN
C-2.0	PHASE I EXISTING CONDITIONS SECTION
C-3.0	PHASE I TEMPORARY ACCESS, PHASE I TEMPORARY ACCESS, SEDIMENT AND EROSION CONTROL, AND DEMOLITION PLAN
C-4.0	PHASE I PROPOSED GRADING PLAN
C-5.0	PHASE I PROPOSED CONDITIONS SECTION
C-6.0	PHASE I DETAILS
C-6.1	PHASE I DETAILS
C-7.0	PHASE II TEMPORARY ACCESS, SEDIMENT AND EROSION CONTROL, AND DEMOLITION PLAN
C-8.0	PHASE II PROPOSED GRADING PLAN
STRUCTURAL	
S-1.0	PHASE II PROPOSED SPILLWAY CHUTE PLAN VIEW
S-2.0	PHASE II PROPOSED RIGHT SPILLWAY CHUTE SECTION
S-3.0	PHASE II PROPOSED LEFT SPILLWAY CHUTE SECTION
S-4.0	PHASE II TYPICAL SECTIONS
S-4.1	PHASE II TYPICAL SECTIONS
S-5.0	PHASE II DETAILS

NO.	ISSUE/DESCRIPTION	BY	DATE
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NEW MILFORD RESERVOIR #4 DAM (CT DAM ID #9604) NEW MILFORD, CONNECTICUT			
COVER SHEET AND DRAWING INDEX			
PREPARED BY: GZA GeoEnvironmental, Inc. www.gza.com		PREPARED FOR: TOWN OF NEW MILFORD	
PROJ MGR: DKR	REVIEWED BY: JFD	CHECKED BY: JDA	DRAWING NO. G-1.0 SHEET NO. 1 OF 18
DESIGNED BY: DKR	DRAWN BY: MJT	SCALE: AS SHOWN	
DATE: DECEMBER 2025	PROJECT NO. 05.0047155.01	REVISION NO. 0	

PROJECT PURPOSE NEW MILFORD RESERVOIR #4 DAM IS AN EARTHEN EMBANKMENT DAM WITH A CONCRETE CORE WALL. THE SPILLWAY CONSISTS OF A CONCRETE BROAD CRESTED WEIR WITH STONE MASONRY TRAINING WALLS THAT DISCHARGES TO A CONCRETE APRON STILLING BASIN. THE PRIMARY GOALS OF THIS IMPROVEMENT PROJECT ARE TO INCREASE THE SPILLWAY CAPACITY TO PASS THE ½ PROBABLE MAXIMUM FLOOD (PMF), REDUCE AND CONTROL SEEPAGE, INCREASE THE STRUCTURAL STABILITY OF THE EMBANKMENT, AND INSTALL EROSION PROTECTION IN THE SPILLWAY CHANNEL. PHASE 1: 1. RAISING THE EMBANKMENT TO THE RIGHT OF THE SPILLWAY BY APPROXIMATELY 3.6 FEET TO EL. 681.6 FEET; 2. FLATTENING THE DOWNSTREAM SLOPE TO A 2.75 HORIZONTAL TO ONE VERTICAL (2.75H:1V) SLOPE; 3. FLATTENING THE UPSTREAM SLOPE ABOVE THE NORMAL WATER LINE TO A 2H:1V SLOPE; 4. INSTALLING A CHIMNEY AND DRAINAGE BLANKET ALONG THE DOWNSTREAM SLOPE; 5. INSTALLING RIPRAP ALONG THE DOWNSTREAM TOE AND ALONG THE UPSTREAM SLOPE; 6. RAISING THE TOP OF THE CONCRETE CORE WALL TO EL. 677.9 FEET; 7. EXTENDING THE EXISTING 24-INCH LOW-LEVEL OUTLET PIPE FURTHER DOWNSTREAM; 8. ABANDONING THE TWO EXISTING 24-INCH DIAMETER REINFORCED CONCRETE PIPES FROM THE SPILLWAY THAT DISCHARGE AT THE EXISTING DOWNSTREAM TOE; AND 9. TEMPORARILY FILLING THE SPILLWAY STILLING BASIN WITH RIPRAP. PHASE 2: 1. REMOVING THE TEMPORARY RIPRAP IN THE SPILLWAY STILLING BASIN; 2. DEMOLISHING THE EXISTING SPILLWAY STRUCTURE AND STONE MASONRY TRAINING WALLS; 3. CONSTRUCTING A NEW CONCRETE SPILLWAY INCLUDING TRAINING WALLS AND SPILLWAY CHUTE; 4. INSTALLING RIPRAP AT THE TRANSITION BETWEEN THE DOWNSTREAM END OF THE NEW SPILLWAY CHUTE AND THE NATURAL DOWNSTREAM CHANNEL; 5. RAISING THE REMAINING PORTIONS OF THE EMBANKMENT TO THE LEFT AND RIGHT OF THE SPILLWAY TO EL. 681.6 FEET; 6. FLATTENING THE REMAINING PORTIONS OF THE DOWNSTREAM SLOPE TO A 2.75H:1V SLOPE AND THE UPSTREAM SLOPE ABOVE NORMAL WATER LEVEL TO A 2H:1V SLOPE; AND 7. CONSTRUCTING A NEW PEDESTRIAN FOOTBRIDGE OVER THE SPILLWAY. PLAN REFERENCES 1. ELEVATIONS, IN FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (HEREAFTER REFERRED TO AS NAVD88). 2. BASE MAP DEVELOPED FROM ELECTRONIC FILES PROVIDED BY ACCURATE LAND SURVEYING, LLC ENTITLED "M-247 WORK 8-21-2024" DWG. RECEIVED 8/23/2024. 3. WETLANDS DELINEATED BY A GZA SOIL SCIENTIST IN AUGUST 2024. WETLANDS FLAGS SHOWN HEREON WERE LOCATED IN FIELD BY GZA USING A GPS WITH SUB-METER ACCURACY. 4. LIMITED BATHYMETRIC SURVEY PERFORMED BY GZA IN AUGUST 2024. 5. TEST PITS PERFORMED BY THE TOWN OF NEW MILFORD IN JULY 2024. TEST BORINGS PERFORMED BY NEW ENGLAND BORING CONTRACTORS IN AUGUST 2024. TEST PITS AND TEST BORINGS WERE OBSERVED BY GZA. 6. LEFT AND RIGHT DIRECTIONS USED IN THE PLANS AND SPECIFICATIONS ASSUME AN ORIENTATION LOOKING DOWNSTREAM. GENERAL CONDITIONS 1. LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY, AND ARE NOT WARRANTED TO BE CORRECT. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED FOR SERVICE, SIZE, INVERT ELEVATION, LOCATION, ETC. PRIOR TO ANY CONSTRUCTION WORK IN THE VICINITY THEREOF. THE CONTRACTOR MUST NOTIFY CBVD (CALL BEFORE YOU DIG) (PHONE NUMBER: 811) AT LEAST 2 FULL WORKING DAYS PRIOR TO ANY EXCAVATION. APPROPRIATE MUNICIPAL DEPARTMENTS MUST ALSO BE NOTIFIED. NOTIFY OWNER AND ENGINEER IN WRITING OF ANY AND ALL DISCREPANCIES PRIOR TO COMMENCING WORK. 2. TEMPORARY BENCHMARKS AND CONTROL POINTS WERE LOCATED OR SET BY THE SURVEYOR. NO GUARANTEE IS MADE AS TO THE EXISTENCE OR ACCURACY OF SUCH MARKS AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINDING, VERIFYING, AND RE-SETTING (IF NECESSARY) CONTROL POINTS AND BENCHMARKS FOR THE WORK OF THE CONTRACT OR OTHERWISE ESTABLISHING THEIR OWN. 3. THE RESPONSIBILITY FOR SAFETY IN, ON, OR ABOUT THE JOBSITE SHALL BE THAT OF THE CONSTRUCTION CONTRACTOR. THESE DRAWINGS DO NOT INCLUDE COMPONENTS WHICH MAY BE NECESSARY FOR CONSTRUCTION SAFETY. 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, EXCEPT WHERE SPECIFICALLY DETAILED IN THE PLANS AND SPECIFICATIONS. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEQUENCE OF THE WORK, EXCEPT WHERE SPECIFICALLY DETAILED IN THE PLANS AND SPECIFICATIONS. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL DURING THE WORK OF THE CONTRACT. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE, AT MINIMUM, AS REQUIRED BY THE PROJECT PLANS, SPECIFICATIONS, AND PERMIT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL MEASURES NECESSARY FOR THE PREVENTION OF SEDIMENT DISCHARGE OR EROSION AT THE SITE. 6. ACCESS TO THE SITE SHALL BE FROM THE ACCESS ROAD ON SECOND HILL ROAD. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE THE CONDITION OF THE ACCESS ROAD TO THE ORIGINAL CONDITION (OR BETTER) PRIOR TO DEMOLIZING FROM THE SITE. 7. SPECIFIC AREAS HAVE BEEN DESIGNATED AND DELINEATED ON THE PLANS AS POTENTIAL CONTRACTOR STAGING AREAS. THE CONTRACTOR SHALL SUBMIT A DETAILED LAYOUT PLAN TO THE TOWN OF NEW MILFORD FOR APPROVAL. THE PLAN SHALL ACCOUNT FOR ALL SITE PARKING, TRAILERS, EQUIPMENT, MATERIAL HANDLING, MATERIAL STORAGE, SANITARY PROVISIONS AND EXISTING UTILITY PROTECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY SIGNAGE, FENCING, SAFETY, SEDIMENT/EROSION CONTROL, IMPROVEMENTS, RESTORATIONS, ETC. IN THESE AREAS. OTHER AREAS WITHIN THE LIMITS OF WORK MAY BE USED FOR TEMPORARY STORAGE, HALL, ROADS, PARKING, ETC. HOWEVER, NO ADDITIONAL CONSIDERATION OR PAYMENT WILL BE MADE FOR WORK NECESSARY TO RE-GRADE SUCH AREAS OR RELOCATE ANY MATERIALS OR EQUIPMENT TEMPORARILY STORED WITHIN THE LIMITS OF THE WORK. ADDITIONAL LAYDOWN AND STORAGE SPACE, IF REQUIRED, CAN BE DISCUSSED WITH THE TOWN. HOWEVER, THERE IS NO GUARANTEE THAT ADDITIONAL SPACE IS AVAILABLE. 8. THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY CONSTRUCTION AS PER THE PLANS AND SPECIFICATIONS. WHERE NO SPECIFIC INSTRUCTION IS GIVEN, RESTORATION SHALL BE TO THE ORIGINAL CONDITION OR BETTER AND AT NO ADDITIONAL COST TO THE OWNER. 9. THE CONTRACTOR IS SPECIFICALLY INFORMED THAT THE RESTORATION REQUIREMENT APPLIES TO ALL AREAS DISTURBED AS A RESULT OF THE PROJECT, INCLUDING ACCESS ROADS. 10. IN THE EVENT OF THE DISCOVERY OF THE PRESENCE OF AN ENDANGERED PLANT, ENDANGERED ANIMAL, UNKNOWN ARCHEOLOGICAL SITE, POTENTIAL CULTURAL ARTIFACTS OR RESOURCES, OR ANY OTHER UNUSUAL ITEMS OR CONDITIONS IN THE WORK AREA OR STAGING AREA, ALL WORK IN THE IMMEDIATE AREA OF THE FIND SHALL STOP AND THE OWNER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY. WORK IN THE IMMEDIATE AREA AND/OR THE ENTIRE SITE (AT THE DISCRETION OF THE OWNER) SHALL BE DISCONTINUED UNTIL CLEARANCE IS GRANTED BY THE OWNER. 11. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL DEVELOP, SUBMIT, AND MAINTAIN AN EMERGENCY CONTACT LIST WITH NAMES AND PHONE NUMBERS (DAY AND NIGHT) OF ALL KEY PERSONNEL INVOLVED WITH THE PROJECT. THE LIST SHALL SPECIFICALLY INCLUDE THE PERSON FROM THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR ENVIRONMENTAL COMPLIANCE. THE LIST SHALL BE PROVIDED TO THE OWNER, ENGINEER AND CTDEEP DAM SAFETY PROGRAM AND UPDATED AS NEEDED. 12. IN THE EVENT OF UNANTICIPATED ENVIRONMENTAL AND/OR ARCHEOLOGICAL CONDITIONS WHICH PREVENT CONTINUED WORK, THE OWNER MAY DIRECT THE CONTRACTOR TO STOP WORK AND STABILIZE THE SITE. THE OWNER RESERVES THE RIGHT TO TERMINATE THE CONTRACT IN SUCH A CASE. 13. THE CONTRACTOR IS RESPONSIBLE FOR ALL PENALTIES AND DELAYS DUE TO NON-COMPLIANCE WITH PERMIT CONDITIONS. 14. THE DIMENSIONS AND ELEVATIONS SHOWN IN THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF WORK AND FABRICATION. CONTACT ENGINEER IF DIMENSIONS AND ELEVATIONS VARY FROM WHAT IS SHOWN. REGULATORY STANDARDS THE CURRENT CONNECTICUT DAM SAFETY REGULATIONS, DATED FEBRUARY 3, 2016 WERE USED AS THE GUIDELINE FOR THE REHABILITATION PROJECT DESIGN. HAZARD CLASSIFICATION: C SPILLWAY DESIGN FLOOD: ½ PROBABLE MAXIMUM FLOOD (1/2 PMF) HYDROLOGY AND HYDRAULICS 25 YEAR FLOOD INFLOW: 1,030 CFS 50 YEAR FLOOD INFLOW: 1,219 CFS 100 YEAR FLOOD INFLOW: 1,432 CFS 500 YEAR FLOOD INFLOW: 2,120 CFS 1000 YEAR FLOOD INFLOW: 2,499 CFS ½ PROBABLE MAXIMUM FLOOD (PMF) INFLOW: 3,356 CFS APPROXIMATE CONSTRUCTION POOL ELEVATION: 648' APPROXIMATE 25 YEAR FLOOD ELEVATION (CONSTRUCTION): APPROXIMATE 50 YEAR FLOOD ELEVATION (CONSTRUCTION): APPROXIMATE NORMAL POOL ELEVATION: 673.4' APPROXIMATE PMF POOL ELEVATION: 681.6' ANTICIPATED CONSTRUCTION SEQUENCE THE INTENT OF THIS ANTICIPATED CONSTRUCTION SEQUENCE IS TO PROVIDE GUIDANCE TO THE CONTRACTOR TOWARDS MEETING THE INTENT OF THE PROJECT AND PERMIT REQUIREMENTS. THE ACTUAL MEANS AND METHODS MAY BE ALTERED BY THE CONTRACTOR WHILE THE CONSTRUCTION WILL COMPLETED IN TWO (2) PHASES. PHASE 1 OF THE CONSTRUCTION WILL FOCUS ON IMPROVEMENTS TO THE EMBANKMENT. PHASE 2 OF THE CONSTRUCTION WILL FOCUS ON IMPROVEMENTS TO THE SPILLWAY AND DOWNSTREAM CHANNEL. PHASE 1: 1. MOBILIZE ALL NECESSARY EQUIPMENT, PERSONNEL, AND MATERIAL TO THE SITE. DEPLOY MEASURES TO PROTECT EXISTING TREES, UTILITIES, GATES, AND OTHER STRUCTURES AT THE SITE. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. 2. ESTABLISH LAYDOWN AREA AND WORK ACCESS. 3. CONSTRUCT AN ACCESS ROAD ALONG THE RIGHT SIDE OF THE DOWNSTREAM SLOPE AND GRADE TOP OF EMBANKMENT FOR EQUIPMENT ACCESS. 4. REPLACE EXISTING RIPRAP DOWNSTREAM OF SPILLWAY STILLING BASIN WITH NEW RIPRAP. 5. FORMERLY ABANDONED THE TWO EXISTING 24-INCH DIAMETER REINFORCED CONCRETE PIPES THAT DISCHARGE FROM THE SPILLWAY TO THE EXISTING DOWNSTREAM TOE. CORE HOLE IN DOWNSTREAM SILL. 6. BACKFILL SPILLWAY STILLING BASIN WITH RIPRAP. 7. INSTALL TOE DRAIN AND TOE DRAIN MANHOLE ON THE DOWNSTREAM SLOPE. 8. EXTEND THE 24-INCH RCP OUTLET PIPE. 9. LOCATE AND EXTEND EMBANKMENT CORE WALL. 10. REGRADE / FILL DOWNSTREAM EMBANKMENT SLOPE, INCLUDING NEW RIPRAP ALONG THE DOWNSTREAM TOE. 11. RAISE DAM CREST WITH NEW EMBANKMENT FILL. 12. INSTALL RIPRAP ALONG THE UPSTREAM SLOPE. 13. PERFORM FINAL SITE RESTORATION ACTIVITIES INCLUDING RESTORATION TO STAGING AREAS, FENCING, UTILITIES, PAVEMENT, OR OTHER FACILITIES FROM DAMAGES CAUSED AS A RESULT OF THE WORK AND/OR MOBILIZATION/DEMOLITION. 14. DEMOBILIZE FROM SITE AND REMOVE ALL TEMPORARY STRUCTURES, TRASH, DEBRIS, AND OTHER MATERIALS FROM THE SITE. REMOVE TEMPORARY CONTROLS AND SIGNAGE. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS WHERE APPROPRIATE. NOTIFY OWNER AND ENGINEER OF FINAL STABILIZATION SCHEDULE AND CONDUCT SITE WALK TO INSPECT THE SITE. PHASE 2: 1. MOBILIZE ALL NECESSARY EQUIPMENT, PERSONNEL, AND MATERIAL TO THE SITE. DEPLOY MEASURES TO PROTECT EXISTING TREES, UTILITIES, GATES, AND OTHER STRUCTURES AT THE SITE. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. 2. ESTABLISH LAYDOWN AREA AND WORK ACCESS. 3. LOWER LAKE AND INSTALL COFFERDAM UPSTREAM OF THE EXISTING SPILLWAY. 4. DEMOLISH THE EXISTING SPILLWAY STRUCTURE, PEDESTRIAN FOOTBRIDGE, AND REMOVE RIPRAP FROM DOWNSTREAM CHANNEL. 5. INSTALL NEW CONCRETE GRAVITY SPILLWAY, TRAINING WALLS, DISCHARGE CHANNEL, CHUTE, AND DOWNSTREAM APRON. MOVE TEMPORARY COFFERDAM AS NEEDED. 6. RAISE THE REMAINING PORTIONS OF THE EMBANKMENT TO EL. 681.6 FEET. 7. INSTALL NEW PEDESTRIAN BRIDGE OVER THE SPILLWAY. 8. PERFORM FINAL SITE RESTORATION ACTIVITIES INCLUDING RESTORATION TO STAGING AREAS, FENCING, UTILITIES, PAVEMENT, OR OTHER FACILITIES FROM DAMAGES CAUSED AS A RESULT OF THE WORK AND/OR MOBILIZATION/DEMOLITION. 9. DEMOBILIZE FROM SITE AND REMOVE ALL TEMPORARY STRUCTURES, TRASH, DEBRIS, AND OTHER MATERIALS FROM THE SITE. REMOVE TEMPORARY CONTROLS AND SIGNAGE. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS WHERE APPROPRIATE. NOTIFY OWNER AND ENGINEER OF FINAL STABILIZATION SCHEDULE AND CONDUCT SITE WALK TO INSPECT THE SITE. WATER CONTROL NOTES 1. NO DRAWDOWN OF THE NEW MILFORD RESERVOIR #4 SHALL BE PERMITTED FOR CONSTRUCTION PURPOSES DURING PHASE 1 OF THE PROJECT WITHOUT OWNER/ENGINEER APPROVAL. DURING PHASE 2, THE LAKE MAY BE DRAWN DOWN TO EL. 648' FEET, PENDING REGULATORY PERMIT APPROVAL. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY WATER CONTROL, SURFACE WATER AND GROUNDWATER CONTROL, NEGOTIATE AND COMPLETE THE WORK OF THE CONTRACT SUBJECT TO THE RESTRICTIONS CONTAINED IN THE CONTRACT AND PROJECT PERMITS. CONTROLS SHOWN IN THE CONTRACT DRAWINGS AND MENTIONED IN THE TECHNICAL SPECIFICATIONS SHALL BE CONSIDERED MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL EMPLOY WHATEVER SUPPLEMENTARY MEASURES NECESSARY TO PROTECT THE SITE AND THE WORK. 3. ALL TEMPORARY WATER CONTROL MEASURES SHALL BE IMPLEMENTED IN CONJUNCTION WITH APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES SO AS TO MINIMIZE TO THE GREATEST EXTENT POSSIBLE RELEASE OF SEDIMENT INTO WATER BODIES AND POTENTIAL EROSION OF SOIL. 4. THE CONTRACTOR IS HEREBY NOTIFIED AS TO THE WATER CONTROL CONDITIONS AND LIMITATIONS AND USE OF BEST MANAGEMENT PRACTICES IS CRITICAL TO PREVENT POSSIBLE IMPACTS TO SENSITIVE ENVIRONMENTAL AREAS. 5. FOR PHASE 2 OF THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND SUBMISSION OF A WATER CONTROL PLAN THAT INCLUDES CONSTRUCTION PHASE FLOOD CONTROL/ EMERGENCY RESPONSE PLAN PRIOR TO BEGINNING WORK ITEMS REQUIRING WATER CONTROL. 6. ANY TEMPORARY PUMPS OR GENERATORS WHICH USE LIQUID FUEL MUST BE PLACED WITHIN AN IMPERMEABLE SECONDARY CONTAINMENT AREA WITH SUFFICIENT CAPACITY TO CONTAIN THE FULL VOLUME OF THE FUEL TANK. 7. PUMPED WATER DISCHARGE AREAS MUST BE PROPERLY PROTECTED TO PREVENT EROSION BY HIGH VELOCITY FLOW. 8. PUMP OR SIPHON INTAKES, IF USED, SHALL BE PLACED SUCH THAT SEDIMENT AND DEBRIS ENTRAINMENT IS MINIMIZED. 9. FOLLOWING TREATMENT IN AN APPROPRIATE BMP, WATER PUMPED FROM EXCAVATIONS SHOULD GENERALLY BE DISCHARGED SUCH THAT IT ENTERS THE DOWNSTREAM CHANNEL, RATHER THAN BACK INTO THE WORK AREA. 10. IF EROSION OR SILTATION OF A WATERCOURSE OCCURS, CONTRACTOR SHALL STOP WORK, PREPARE REVISED MEANS AND METHODS AND SHALL CLEAN UP THE EROSION OR SILTATION AT NO ADDITIONAL COST. EROSION AND SEDIMENTATION CONTROL NOTES 1. TEMPORARY CONTROL OF EROSION AND SEDIMENT DISCHARGE IS REQUIRED THROUGHOUT THE DURATION OF THE PROJECT AND UNTIL PROPOSED STABILIZATION IS ACHIEVED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE AREAS WITHIN THE LIMITS OF WORK AND BEYOND FROM SEDIMENT AND/OR POLLUTANTS ORIGINATING FROM ANY WORK DONE ON OR IN SUPPORT OF THE PROJECT, INCLUDING SEDIMENT DUE TO EROSION FROM STORMWATER RUNOFF. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION CONTROL PLAN (SWPPC) AND OBTAINING A CONSTRUCTION STORMWATER GENERAL PERMIT FROM CTDEEP. COPY OF THE APPROVED SWPPC, SIGNED BY ALL RESPONSIBLE PARTIES, SHALL BE KEPT ON SITE AT ALL TIMES. ALL WORK SHALL BE IN ACCORDANCE WITH THE PLAN. 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES NECESSARY TO EXECUTE AND COMPLETE THE WORK OF THE CONTRACT, IN COMPLIANCE WITH THE TERMS AND CONDITIONS CONTAINED IN THE CONTRACT, PROJECT PERMITS AND ALL STATE AND LOCAL ORDINANCES THAT APPLY. CONTROLS SHOWN ON THE CONTRACT DRAWINGS SHALL BE CONSIDERED MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL EMPLOY WHATEVER SUPPLEMENTARY MEASURES NECESSARY TO PROTECT WETLANDS, WATER, AND ADJACENT AREAS FROM DISTURBANCE OR DISCHARGE OF SEDIMENTS. 4. THE CONTRACTOR SHALL POST COPIES OF THE PROJECT PERMITS AND AUTHORIZATIONS PROMINENTLY AT THE SITE. THE CONTRACTOR SHALL POST A SIGN WITH THE PROPER CONNECTICUT DEEP FILE NUMBER DISPLAYED PROMINENTLY AT THE SITE. 5. THE CONTRACTOR SHALL NOT DISTURB VEGETATED AREAS OUTSIDE OF THE WORK ZONE, EXCEPT TO THE MINIMUM EXTENT NECESSARY FOR ACCESS AND ACCOMPLISHMENT OF THE WORK SHOWN. 6. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT MIGRATION INTO WATER BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, CONCRETE, OR ANY OTHER POLLUTANTS ASSOCIATED WITH CONSTRUCTION PROCEDURES. 7. ACTUAL LOCATION OF EROSION CONTROLS AND BEST MANAGEMENT PRACTICES (BMPs) MAY VARY DUE TO FIELD CHANGES, ONGOING CONSTRUCTION, ACCESS NEEDS, WEATHER, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING THESE CHANGES AND ADJUSTING EROSION CONTROLS AND BMP LOCATIONS ACCORDINGLY. IN PARTICULAR, THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND RELOCATION OF BMPs WITH PROJECT PHASING, AS NECESSARY. 8. ALL EROSION CONTROLS AND BMPs SHALL REMAIN IN PLACE, EXCEPT AS OTHERWISE NECESSARY. UNTIL CONSTRUCTION IS COMPLETED AND PROPOSED STABILIZATION IS ACHIEVED. 9. EXCAVATED MATERIALS SUSPECTED OF CONTAMINATION SHALL BE SEPARATED AND STOCKPILED ON-SITE FOR EVALUATION BY THE ENGINEER. 10. ADDITIONAL EROSION CONTROL BARRIERS SHALL BE INSTALLED AT THE DIRECTION OF THE ENGINEER TO MINIMIZE THE THREAT OF ADVERSE IMPACT DURING THE CONSTRUCTION PROCESS. AN ADEQUATE SUPPLY OF REPLACEMENT EROSION CONTROL BARRIERS WILL BE AVAILABLE ONLY FOR EMERGENCY PURPOSES. 11. SEDIMENT AND EROSION CONTROLS AND BMPs SHALL BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION AT THE SITE. NO WORK WHICH SHALL DISTURB THE SITE OR CREATE THE POTENTIAL FOR SEDIMENT RELEASE SHALL COMMENCE UNTIL THE SEDIMENT AND EROSION CONTROLS HAVE BEEN INSPECTED AND APPROVED BY THE OWNER AND ENGINEER. ALL CONTROLS AND BMPs SHALL BE SUBJECT TO INSPECTION BY THE OWNER AND THEIR REPRESENTATIVE AT ANYTIME THEREAFTER. 12. PERIODIC INSPECTION, MAINTENANCE, AND CLEANING OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND BMPs ARE REQUIRED. ALL CONTROLS AND BMPs SHALL BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF RAINFALL EVENTS OF 0.5 INCHES OR GREATER. ROUTINE INSPECTION AND MAINTENANCE WILL REDUCE THE CHANCE OF POLLUTING STORMWATER BY FINDING AND CORRECTING PROBLEMS BEFORE THE NEXT RAIN EVENT. THE CONTRACTOR WILL BE REQUIRED TO KEEP A WRITTEN, UPDATED SITE MAINTENANCE LOG DOCUMENTING INSPECTION AND MAINTENANCE ACTIVITY. 13. THE FOCUS OF THE INSPECTION WILL BE TO DETERMINE: 13.1. WHETHER OR NOT THE MEASURE WAS INSTALLED/PERFORMED CORRECTLY. 13.2. WHETHER OR NOT THERE HAS BEEN ANY DAMAGE TO THE MEASURE SINCE IT WAS INSTALLED OR PERFORMED. 13.3. WHAT SHOULD BE DONE TO CORRECT ANY PROBLEMS WITH THE MEASURE. EACH MEASURE IS TO BE OBSERVED TO DETERMINE IF IT IS STILL EFFECTIVE. IN SOME CASES, SPECIFIC MEASUREMENTS MAY BE TAKEN TO DETERMINE IF MAINTENANCE OF THE MEASURES IS REQUIRED. 13.4. REPORTING AND RECORD KEEPING: IN ADDITION TO THE AFOREMENTIONED INSPECTION AND MAINTENANCE PROCEDURES, THE CONTRACTOR IS TO KEEP A RECORD OF THE FOLLOWING INFORMATION: 13.4.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR IN A PARTICULAR AREA. 13.4.2. THE DATES WHEN CONSTRUCTION ACTIVITIES CEASE IN AN AREA, TEMPORARILY OR PERMANENTLY. 13.4.3. THE DATES WHEN AN AREA IS STABILIZED, TEMPORARILY OR PERMANENTLY. 13.4.4. A COPY OF THE STORM WATER POLLUTION CONTROL PLAN (SWPPC) AND ALL REPORTS GENERATED DURING CONSTRUCTION ACTIVITIES ARE TO BE RETAINED AS REQUIRED BY REGULATION. 14. SITE CLEARING: PRIOR TO ANY SITE CLEARING ACTIVITIES, SEDIMENT CONTROL BARRIERS SHALL BE INSTALLED AS INDICATED ON THE PLANS. ALONG THE PLANTER LIMIT OF DISTURBANCE, DISTURBED AREAS ARE TO BE KEPT TO A MINIMUM. NO CLEARING IS ALLOWED OUTSIDE THE WORK AREA WITHOUT PRIOR APPROVAL FROM THE OWNER. NO TREES WITH A BREAST HEIGHT DIAMETER GREATER THAN 3 INCHES SHALL BE CLEARED WITHOUT PRIOR TO APPROVAL FROM THE TOWN OF NEW MILFORD. BRUSH SHALL BE CHIPPED AND REMOVED FROM SITE. STUMPS SHALL BE TRANSPORTED OFF-SITE, DO NOT BURY. 15. SEDIMENT CONTROL BARRIERS: SEDIMENT CONTROL BARRIERS ARE INTENDED TO TRAP SEDIMENT TRANSPORTED BY RUNOFF BEFORE IT REACHES THE DRAINAGE FEATURES, WATER BODIES, OR WETLANDS. IN ADDITION TO AREAS WHERE HIGH RUNOFF VELOCITIES OR HIGH SEDIMENT LOADS ARE EXPECTED, SAID CONTROLS ARE TO BE REPLACED AS NEEDED BY PERIODIC FIELD INSPECTIONS. 16. DUST CONTROL: STANDARD DUST CONTROL MEASURES, INCLUDING THE USE OF WATER TRUCKS MISTING, SHALL BE USED AS NECESSARY. CALCIUM CHLORIDE OR OTHER CHEMICALS SHALL NOT BE USED. 17. STAGING AREAS: THE CONTRACTOR MAY ESTABLISH LAY DOWN AND STAGING AREAS TO STORE EQUIPMENT AND MATERIALS IN AREAS SHOWN ON CONTRACTORS WORK PLAN AND APPROVED BY OWNER. LOCATION OF ADDITIONAL AREAS, IF NEEDED, SHALL BE COORDINATED WITH AND SUBJECT TO APPROVAL BY THE OWNER. STAGING AREAS SHALL BE ENCIRCLED WITH APPROPRIATE BMPs. 18. SITE CONTROL: SITE SHALL BE CLOSED TO THE PUBLIC AND PROTECTED WITH A MINIMUM OF 8 FOOT TALL TEMPORARY CONSTRUCTION FENCE AT THE ENTRANCE TO THE SITE AT SECOND HILL ROAD. 19. STOCKPILED MATERIALS: STOCKPILES OF SOIL IN AREAS CREATED DURING CONSTRUCTION ACTIVITIES ARE TO BE SURROUNDED WITH SEDIMENT CONTROL WHERE POSSIBLE. OTHER ALTERNATIVES UTILIZED MAY INCLUDE GRAVEL FILTER BERMS OR SIMILAR MEASURES LAID AROUND THE PERIMETER OF THE STOCKPILE. STOCKPILES OF ERODIBLE MATERIAL ARE TO BE COVERED PRIOR TO INCLEMENT WEATHER WITH A MINIMUM OF 20 MIL POLYETHYLENE SHEETING. STOCKPILES LEFT IN PLACE LONGER THAN TWO WEEKS SHALL BE TEMPORARILY STABILIZED AS DESCRIBED HEREIN. 20. TEMPORARY STABILIZATION: WHEN NECESSARY, TEMPORARY SLOPE PROTECTION SHALL BE PROVIDED BY INSTALLING SEDIMENT CONTROL BARRIERS AT THE TOE OF FILLS OR CUT SLOPES. IF ADDITIONAL STABILIZATION IS NEEDED, THEN THE CONTRACTOR SHALL INSTALL EROSION CONTROL, SUCH AS HAY, JUTE, WOOD FIBER, OR BIO OR PHOTO-DEGRADABLE MESH. IN THE EVENT THAT DISTURBED AREAS AT THE SITE ARE TO BE LEFT UNWORKED FOR MORE THAN TWO WEEKS, THE AREAS SHALL BE MULCHED WITH STRAW AT A RATE OF 100 LBS. PER 1,000 S.F. TO HELP CONTROL EROSION. TWO INCHES OF WOOD CHIP MULCH MAY ALSO BE USED AS TEMPORARY COVER. IN THE EVENT THAT DISTURBED AREAS AT THE SITE ARE TO BE LEFT UNWORKED FOR MORE THAN ONE MONTH, THE AREAS SHALL BE TOPSOILED AND SEEDED AT NO ADDITIONAL COST TO THE OWNER. LEAVE THE SURFACES OF ALL EXCAVATIONS AND FILLS IN A FIRM AND STABLE CONDITION AT THE END OF EACH DAY. ROLL OR OTHERWISE TREAT THE SURFACE AS NEEDED. 21. EQUIPMENT FUELING: EQUIPMENT FUELING AND OTHER ACTIVITIES INVOLVING PETROLEUM, OIL, OR OTHER POTENTIALLY HAZARDOUS SUBSTANCES ARE TO BE PERFORMED AT PRE-APPROVED, DESIGNATED AREAS WITH APPROPRIATE SPILL PREVENTION AND CONTROL MEASURES. THIS AREA IS TO BE LOCATED BEHIND A DIKED OR BERMED AREA, AWAY FROM CATCH BASINS AND OTHER DRAINAGE STRUCTURES. PORTABLE SECONDARY CONTAINMENT IS SHALL BE USED, AND ABSORBENT MATERIALS SHALL BE PLACED AROUND THE PERIMETER OF THE FUELING AREA. FUELING SHALL TAKE PLACE AS FAR AS FROM THE RESERVOIR, STREAM, OR OTHER RESOURCE AREAS AS PRACTICABLE. 22. SITE-RESTORATION: STABILIZATION OF THE WOODED AREAS TO BE CLEARED AND OTHER AREAS DISTURBED AS A RESULT OF CONSTRUCTION SHALL BE IMPLEMENTED WITHIN 14 DAYS AFTER GRADING OR CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. APPROPRIATE VEGETATIVE SOIL STABILIZATION IS TO BE USED TO MINIMIZE EROSION. TEMPORARY AND PERMANENT VEGETATIVE COVER IS TO BE ESTABLISHED IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF PREVIOUSLY VEGETATED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. UNLESS OTHERWISE SHOWN ON DRAWINGS, RESTORATION SHALL CONSIST OF REPLACEMENT OF TOPSOIL, OR PLACEMENT OF IMPORTED LOAM AS NEEDED SUCH THAT A MINIMUM OF 6 INCHES OF SUITABLE MATERIAL IS PRESENT AND APPROPRIATELY LIMED, FERTILIZED, GRADED, AND SCARIFIED. 23. RESTORED AREAS SHALL BE ROLLED AND THEN APPROPRIATELY MULCHED OR COVERED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS. 24. PROPOSED STABILIZATION SHALL BE CONSIDERED COMPLETE WHEN ALL SOIL-DISTURBING ACTIVITIES HAVE BEEN COMPLETED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF AT LEAST EIGHTY PERCENT HAS BEEN ESTABLISHED OR EQUIVALENT STABILIZATION MEASURES (SUCH AS THE USE OF MULCHES OR EROSION CONTROL MATTING) HAVE BEEN EMPLOYED ON ALL UNPAVED AREAS WITHIN THE CONSTRUCTION LIMITS AND AREAS NOT COVERED BY PERMANENT STRUCTURES. 25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF SURFACES LOAMED AND SEEDED UNDER THIS CONTRACT, INCLUDING WEEDING, FERTILIZING, AND RE-SEEDING UNTIL ESTABLISHMENT CONDITIONS ARE MET AND UNTIL THE END OF THE CONTRACTUAL MAINTENANCE PERIOD. 26. ALL SLOPES WITHIN THE PROJECT LIMITS SHALL BE STABILIZED WITHIN 2 WEEKS OF THE PROPOSED GRADING. AREAS FAILING TO BE STABILIZED SHALL BE RE-GRADED AND CONTINUED TO BE STABILIZED AS NEEDED. GENERAL NOTES 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES. 2. THE CONTRACTOR SHALL REPORT ANY CHANGES IN SITE CONDITIONS SO THAT THE EFFECT ON THE DESIGN CAN BE EVALUATED. 3. ON SITE OBSERVATION FOR GENERAL CONFORMANCE WITH THESE DRAWINGS SHALL BE PERFORMED BY THE DESIGN ENGINEER. DEMOLITION 1. PROTECT ALL EXISTING STRUCTURES, ITEMS AND EQUIPMENT ADJACENT AND WITHIN THE WORK AREA TO REMAIN. ALL EXISTING STRUCTURES, UTILITIES, EQUIPMENT AND ITEMS ARE TO REMAIN UNLESS DAMAGED OR AFFECTED BY THE WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. 2. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND LAWFUL DISPOSAL OF ALL DEMOLISHED CONCRETE, MASONRY, EQUIPMENT AND MATERIALS. CONTRACTOR SHALL LAWFULLY DISPOSE OF ALL DEMOLITION MATERIAL. 3. CONTRACTOR SHALL COORDINATE THE DEMOLITION WITH THE ASSOCIATED NEW WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES. REINFORCEMENT 1. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE UNCOATED. ALL BARS SHALL BE DEVELOPED AS FOLLOWS: MODIFICATION CONDITION 1.1. NONE 1.2. 12" x OF CONCRETE BELOW BAR 1.3. LAP SPlice LENGTH SHALL BE 1.3 OF THE DEVELOPMENT LENGTH ABOVE. 2. THE FOLLOWING CONCRETE COVER TO REINFORCING STEEL SHALL BE PROVIDED UNLESS OTHERWISE INDICATED ON PLANS: 3.1. CONCRETE CAST AGAINST BEDROCK/ SOIL: 4" 3.2. CONCRETE EXPOSED TO SCOUR: 6" 3.3. ALL OTHER BARS: 3" UNLESS OTHERWISE SPECIFIED 4. DETAILS OF REINFORCING SHOWN ON THESE PLANS ARE SCHEMATIC. CONTRACTOR IS RESPONSIBLE TO DETAIL REINFORCING MEETING THE CRITERIA PROVIDED IN THESE PLANS. ALL REINFORCING DETAILING SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318 AND 315, LATEST EDITIONS. 5. BARS SHALL NOT BE CUT OR OMITTED DUE TO SLEEVES OR OPENINGS. BARS MAY BE MOVED ASIDE WITHOUT CHANGING THE DISTANCE FROM FACE TO CONCRETE, GENERALLY, NOT MORE THAN ¼ BAR SPACING. FIELD BENDING OF REINFORCING STEEL IS NOT ALLOWED. 6. PLACEMENT OF REINFORCING SHALL CONFORM TO THE CONCRETE REINFORCING STEEL INSTITUTES RECOMMENDED PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315). CONCRETE 1. REFER TO TECHNICAL SPECIFICATIONS FOR CAST-IN-PLACE CONCRETE, CONCRETE TESTING, AND FINISHING/CURING/REPAIR REQUIREMENTS. 2. ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE A 1" x 1" CHAMFER UNLESS OTHERWISE NOTED. 3. CONCRETE SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-LATEST). 4. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI UNLESS OTHERWISE NOTED. MAXIMUM AGGREGATE SHALL BE ¾" CONCRETE SHALL HAVE A SLUMP OF 4 TO 6 INCHES, WITH AIR ENTRAINMENT OF 4% TO 6%. CONCRETE MIX SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. 5. UNLESS OTHERWISE NOTED, CONCRETE SHALL BE NORMAL WEIGHT (150 PCF). 6. CONTRACTOR TO HIRE TESTING LABORATORY TO TEST CONCRETE, INCLUDING PREPARATION AND CURING OF TEST CYLINDERS. CONCRETE SHALL BE FIELD TESTED FOR SLUMP (ASTM C143), TEMPERATURE AND AIR CONTENT (ASTM C231). ONE SET OF 4 TEST CYLINDERS SHALL BE MADE FOR EVERY 40 CUBIC YARDS OF CONCRETE PLACED BUT IN NO CASE LESS THAN ONE SET FOR EACH DAY'S PLACEMENT. CYLINDERS SHALL BE MADE AND TESTED IN ACCORDANCE WITH ASTM C172, C31, AND C39. ONE CYLINDER SHALL BE TESTED FOR UNCONFINED COMPRESSIVE STRENGTH AT 7 DAYS, 14 DAYS AND 28 DAYS WITH ONE HELD IN RESERVE. UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE, FOR THE SPECIFIC PROJECT AND LOCATION SHOWN ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA. NEW MILFORD RESERVOIR #4 DAM (CT DAM ID #09604) NEW MILFORD, CONNECTICUT NOTES PREPARED BY: PREPARED FOR: PROJ MGR: DESIGNED BY: DATE: REVIEWED BY: DRAWN BY: PROJECT NO. 05.0047155.01 CHECKED BY: SCALE: REVISION NO. 0 DRAWING NO. G-2.0 SHEET NO. 2 OF 17
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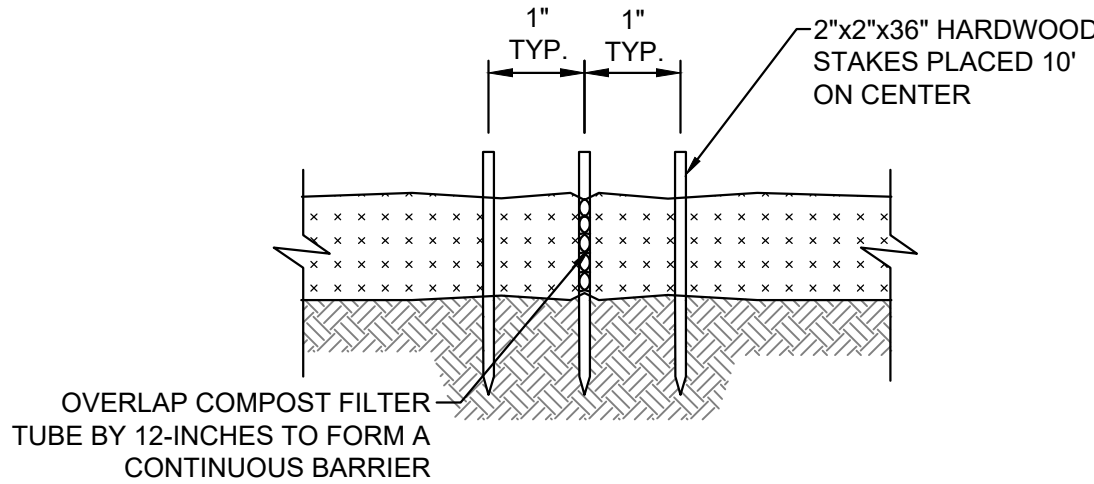
TEMPORARY SEDIMENT AND EROSION CONTROL BARRIER NOTES:

1. FILTER SOCK SHALL BE MADE OF 100% ORGANIC HESSIAN FABRIC (BURLAP) OR BIO-DEGRADABLE 5 MIL HDPE (NO LONGER THAN 6 MONTHS). REPLACEMENT NEEDED AFTER 6 MONTHS.
2. ORGANIC MATTER CONTENT SHALL BE BETWEEN 20 -100% (DRY WEIGHT BASIS) AS DETERMINED BY ASTM D2974 (METHOD A) STANDARD TEST METHODS FOR MOISTURE, ASH, AND ORGANIC MATTER OF PEAT AND OTHER ORGANIC SOILS.
3. MOISTURE CONTENT SHALL BE <150% BY DRY WEIGHT (<60% BY WET WEIGHT) AS MEASURED BY ASTM D2216 STANDARD TEST METHOD FOR LABORATORY DETERMINATION OF WATER CONTENT OF SOIL AND ROCK AND ASTM D2974 (CITED ABOVE).
4. PARTICLE SIZE IS MEASURED BY SIEVING SHALL BE AS FOLLOWS:

SIEVE SIZE	% PASSING
75MM	100%
19MM	70-100%
#4	30- 75%
#20	20-40%

NO PARTICLE MAY BE LONGER THAN 150MM

5. SOLUBLE SALTS SHALL BE <5.0 MMHOS/CM (DS/M).
6. THE PH SHALL BE BETWEEN 5.5 AND 8.0.
7. FILTER SOCKS MUST BE PLACED PARALLEL TO CONTOUR WITH BOTH ENDS OF THE SOCK EXTENDED UPSLOPE AT A 45 DEGREE ANGLE TO THE REST OF THE SOCK TO PREVENT END-AROUNDS.
8. THE CONTRACTOR SHALL MAINTAIN THE FILTER TUBES IN A FUNCTIONAL CONDITION AT ALL TIMES, INCLUDING INSPECTIONS AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
9. FOR REMOVAL, THE CONTRACTOR SHALL RAKE OUT SO THAT FILTER MATERIAL IS NO GREATER THAN 3" IN DEPTH ON SOIL SUBSTRATE.



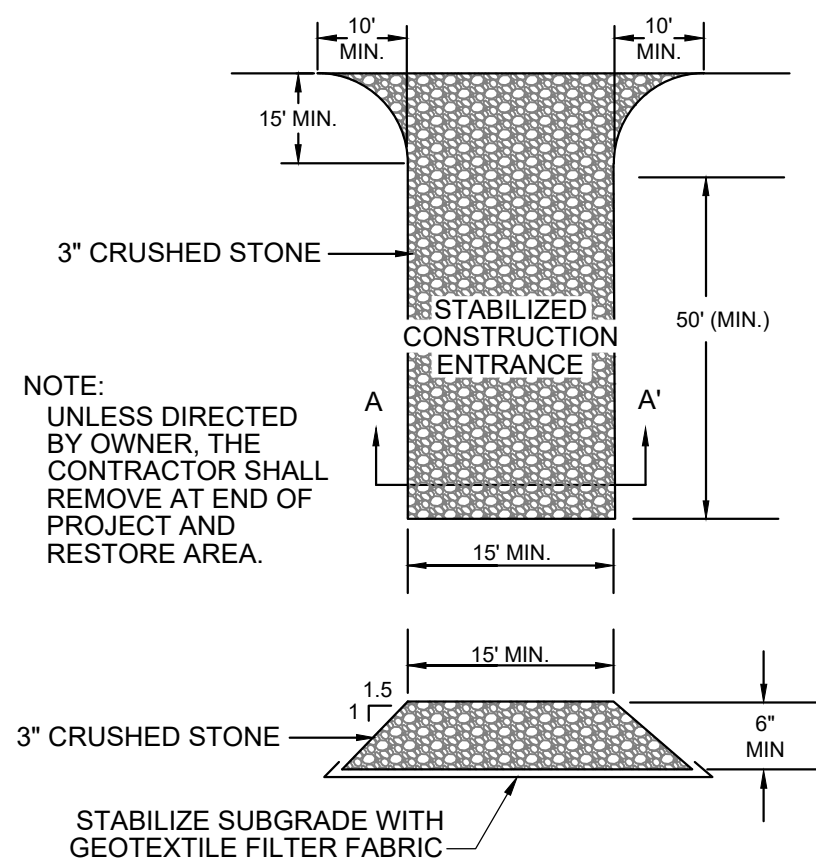
COMPOST FILTER TUBE OVERLAP
NOT TO SCALE

NOTES:

1. ALL MATERIAL TO MEET FILTER TUBE SPECIFICATIONS.
2. FILTER MEDIA (TM) FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE AS APPROVED BY ENGINEER.



COMPOST FILTER TUBE SEDIMENT CONTROL DETAIL
NOT TO SCALE

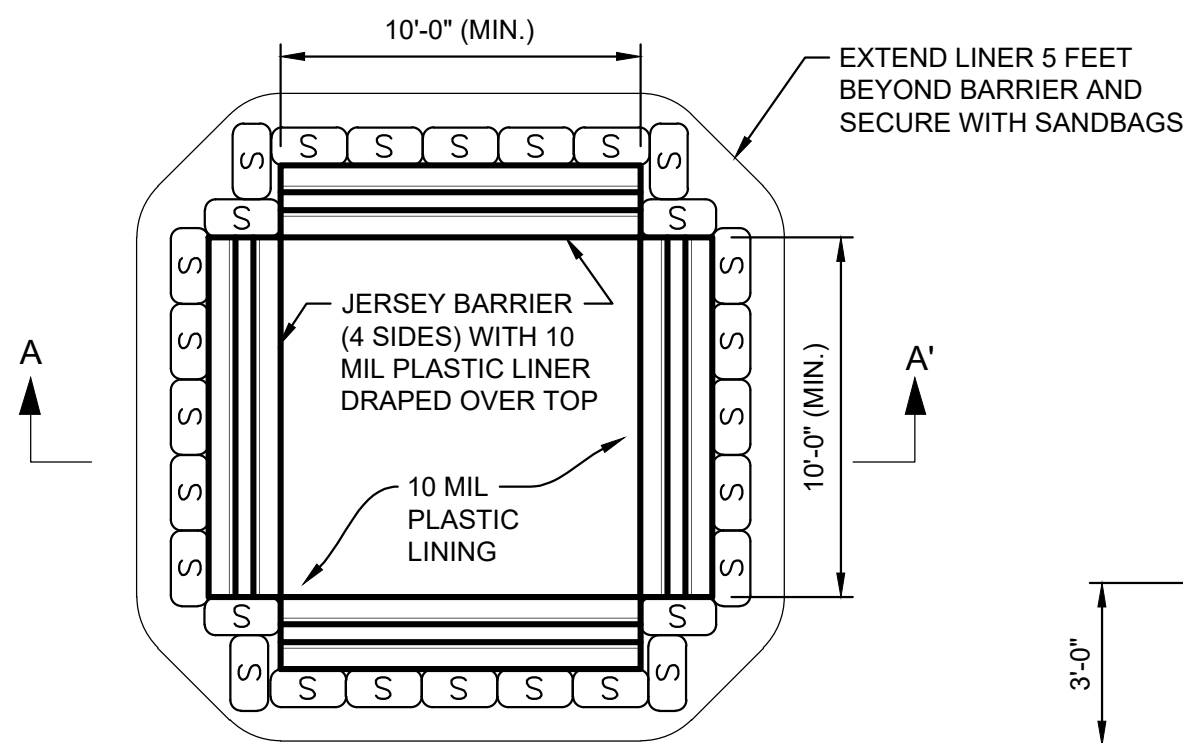


NOTE:
UNLESS DIRECTED BY OWNER, THE CONTRACTOR SHALL REMOVE AT END OF PROJECT AND RESTORE AREA.

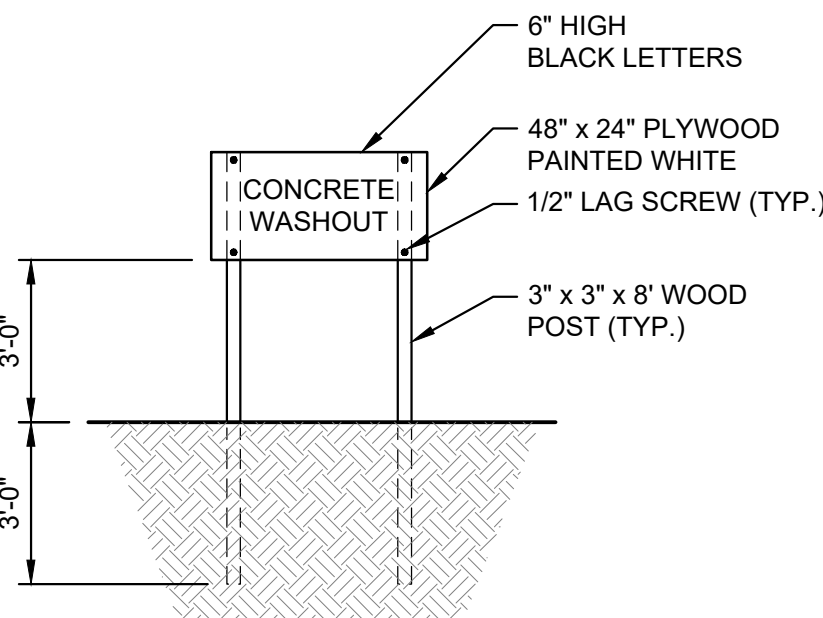
- NOTES:
1. ALSO REFER TO SPECIFICATION SECTION 01560-TEMPORARY EROSION AND SEDIMENTATION CONTROLS, AND TO OTHER REQUIREMENTS SPECIFIED HEREIN.



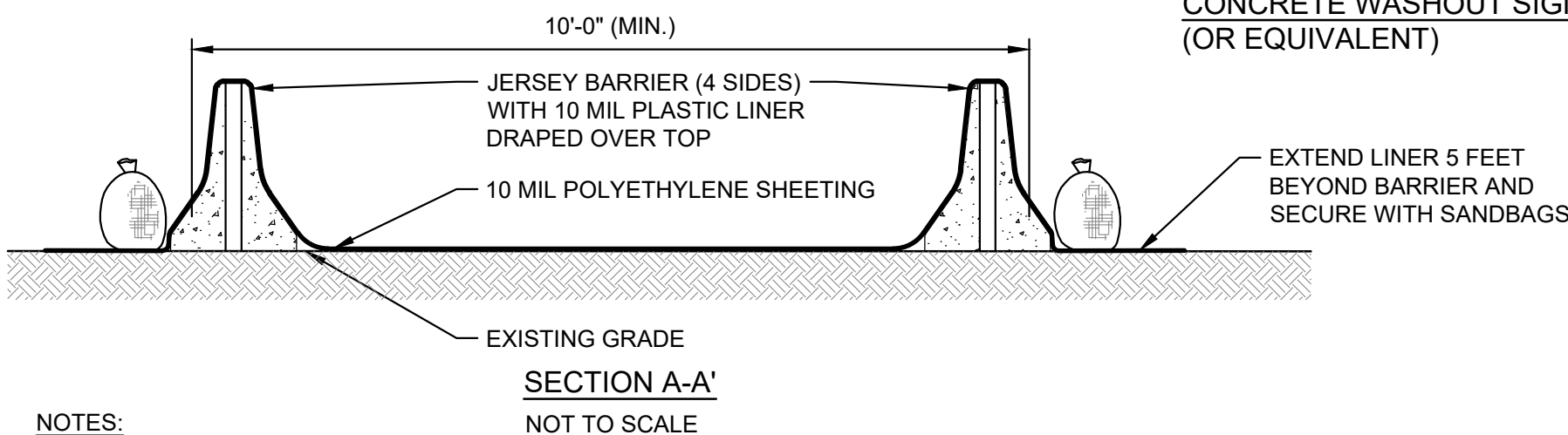
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



PLAN VIEW



CONCRETE WASHOUT SIGN DETAIL
(OR EQUIVALENT)



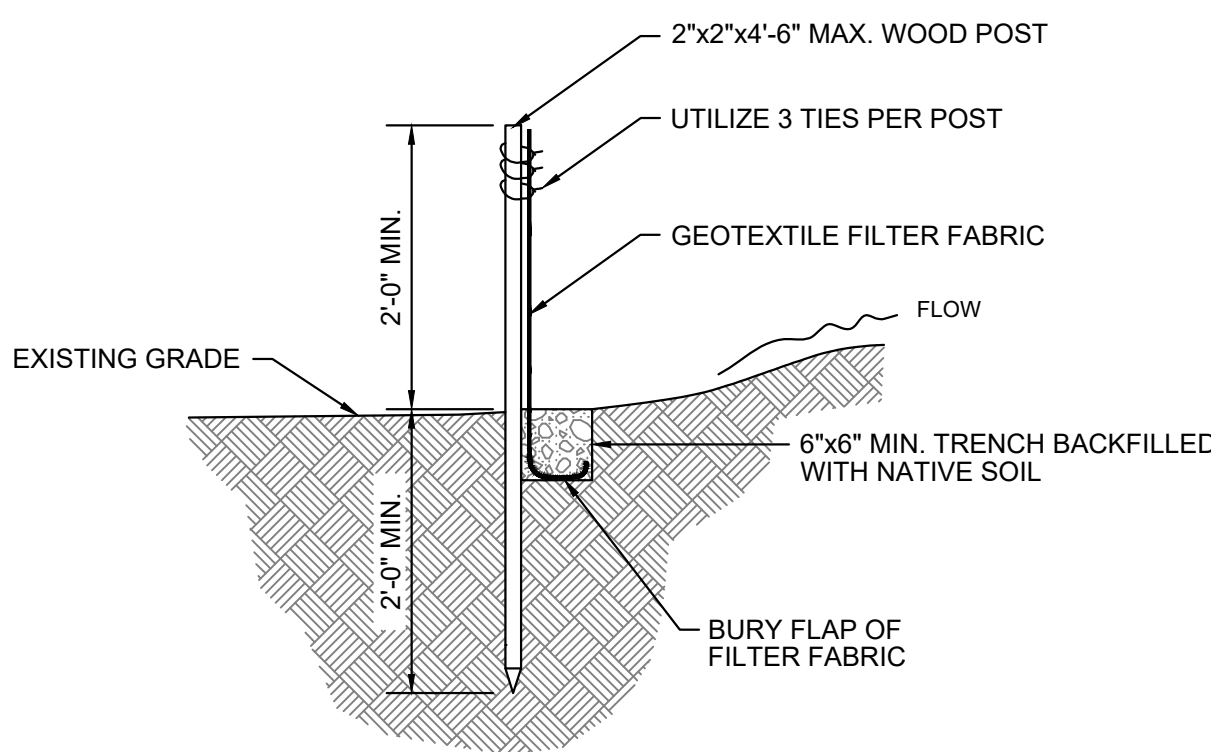
SECTION A-A'
NOT TO SCALE

NOTES:

1. WASTE CONCRETE AND WATER REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF WORK.



CONCRETE WASHOUT AREA
NOT TO SCALE

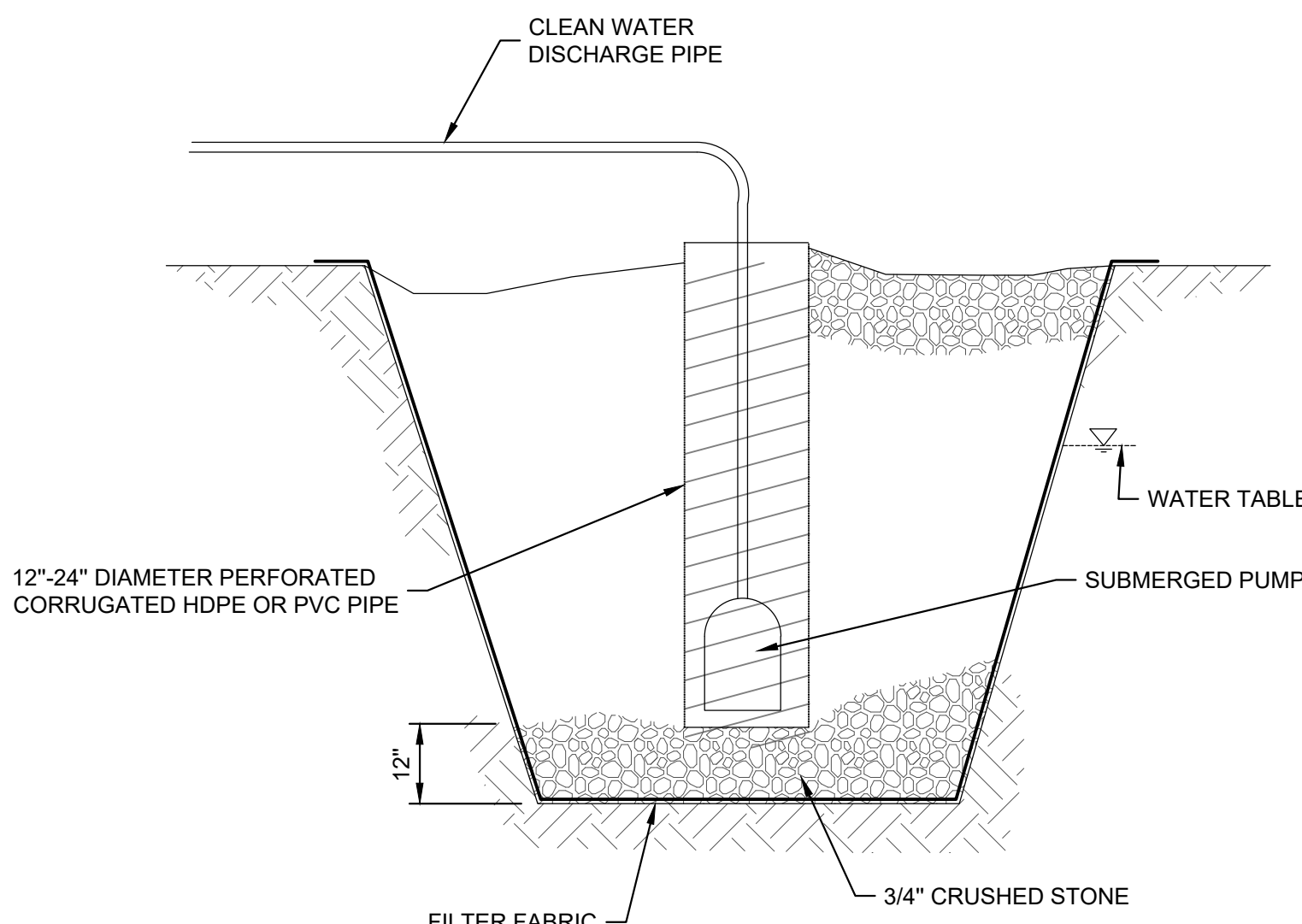


NOTES:

1. SPACING OF WOOD FENCE POST NOT TO EXCEED 6'-0".
2. THE FILTER FABRIC SHOULD BE SECURELY ATTACHED TO THE WOOD POST.

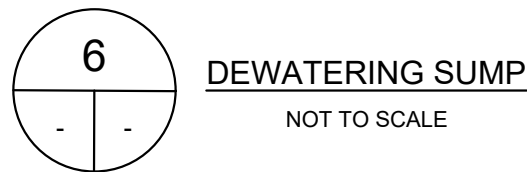


SILT FENCE INSTALLATION DETAIL
NOT TO SCALE

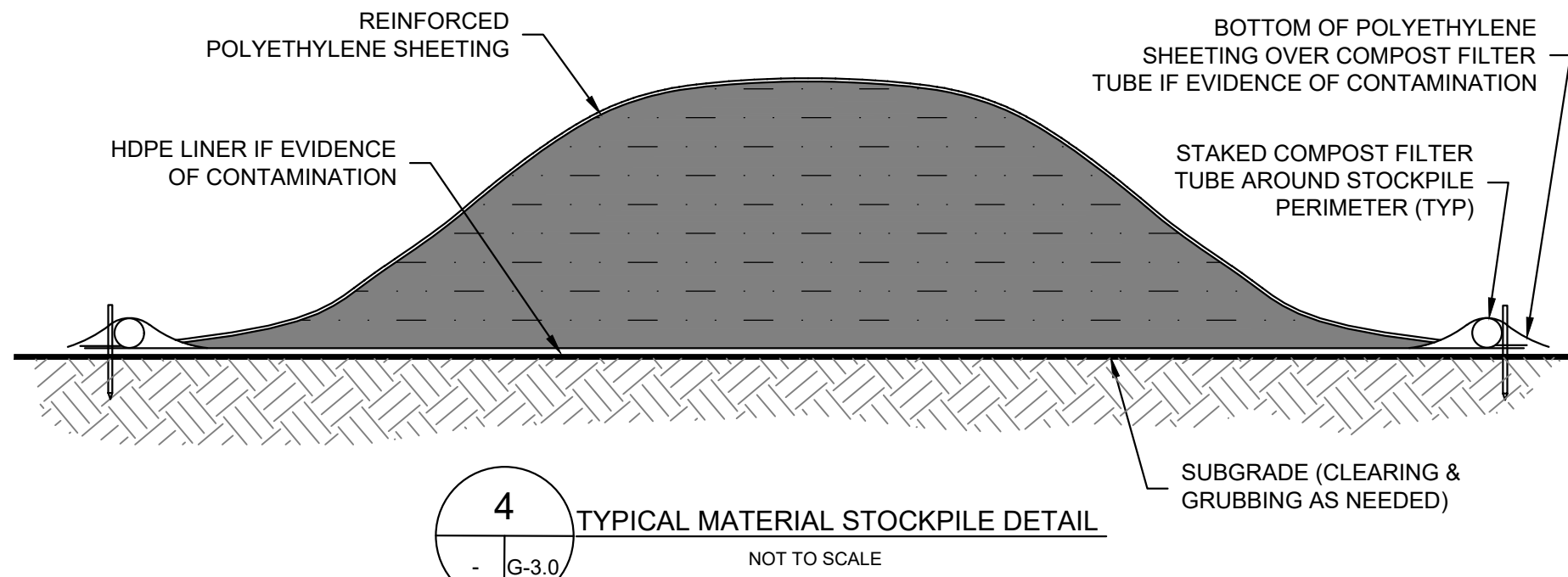


NOTES:

1. TYPICAL DEWATERING SUMP SHOWN. THE ACTUAL DEWATERING SYSTEM DESIGN TO BE PERFORMED BY CONTRACTOR.

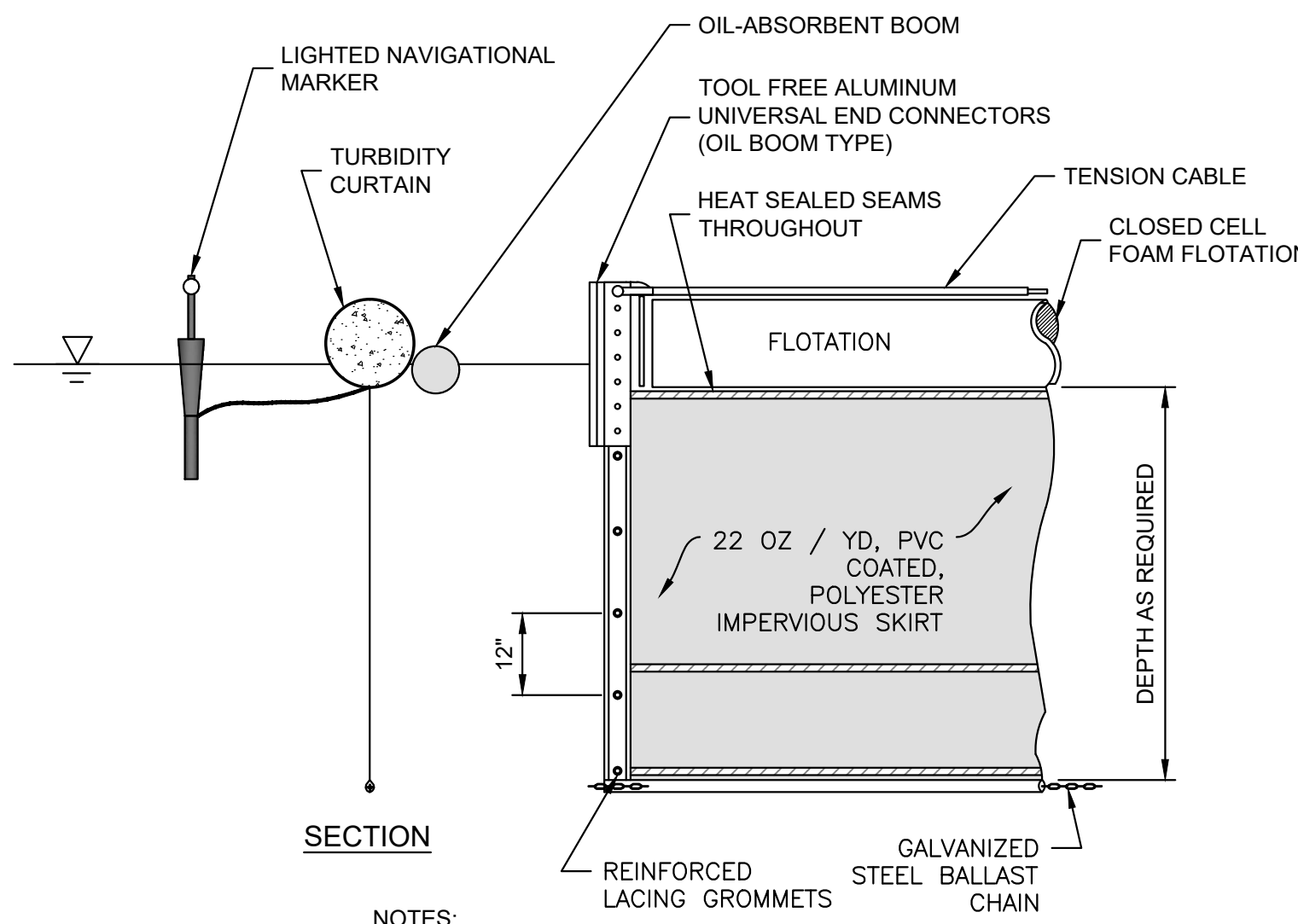


DEWATERING SUMP
NOT TO SCALE



SOIL STOCKPILE NOTES:

1. SOIL STOCKPILES SHALL BE PLACED ON AND COVERED WITH POLYETHYLENE SHEETING AT ALL TIMES TO PREVENT DUST OR IS SUSPECTED OF CONTAMINATION.
2. SHEETING COVERING STOCKPILE SHALL BE MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS ON ROPES WITH A MAXIMUM 10'-0" GRID SPACING IN ALL DIMENSIONS.
3. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
4. STOCKPILE SIDE SLOPES SHALL BE NO STEEPER THAN 3 (HORIZONTAL) TO 1 (VERTICAL).
5. STOCKPILE SHALL BE SURROUNDED BY EROSION CONTROLS AS SHOWN.



NOTES:

1. END OF CURTAIN SHALL BE ANCHORED SECURELY AT THE SHORELINE ABOVE MEAN HIGH WATER ELEVATION IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS
2. TURBIDITY CURTAINS SHALL BE INSPECTED REGULARLY TO DETERMINE IF ALL COMPONENTS ARE FUNCTIONING PROPERLY.



TURBIDITY CURTAIN AND OIL-ABSORBENT BOOM
NOT TO SCALE

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NEW MILFORD RESERVOIR #4 DAM (CT DAM ID #09604)
NEW MILFORD, CONNECTICUT

EROSION AND SEDIMENT CONTROL DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

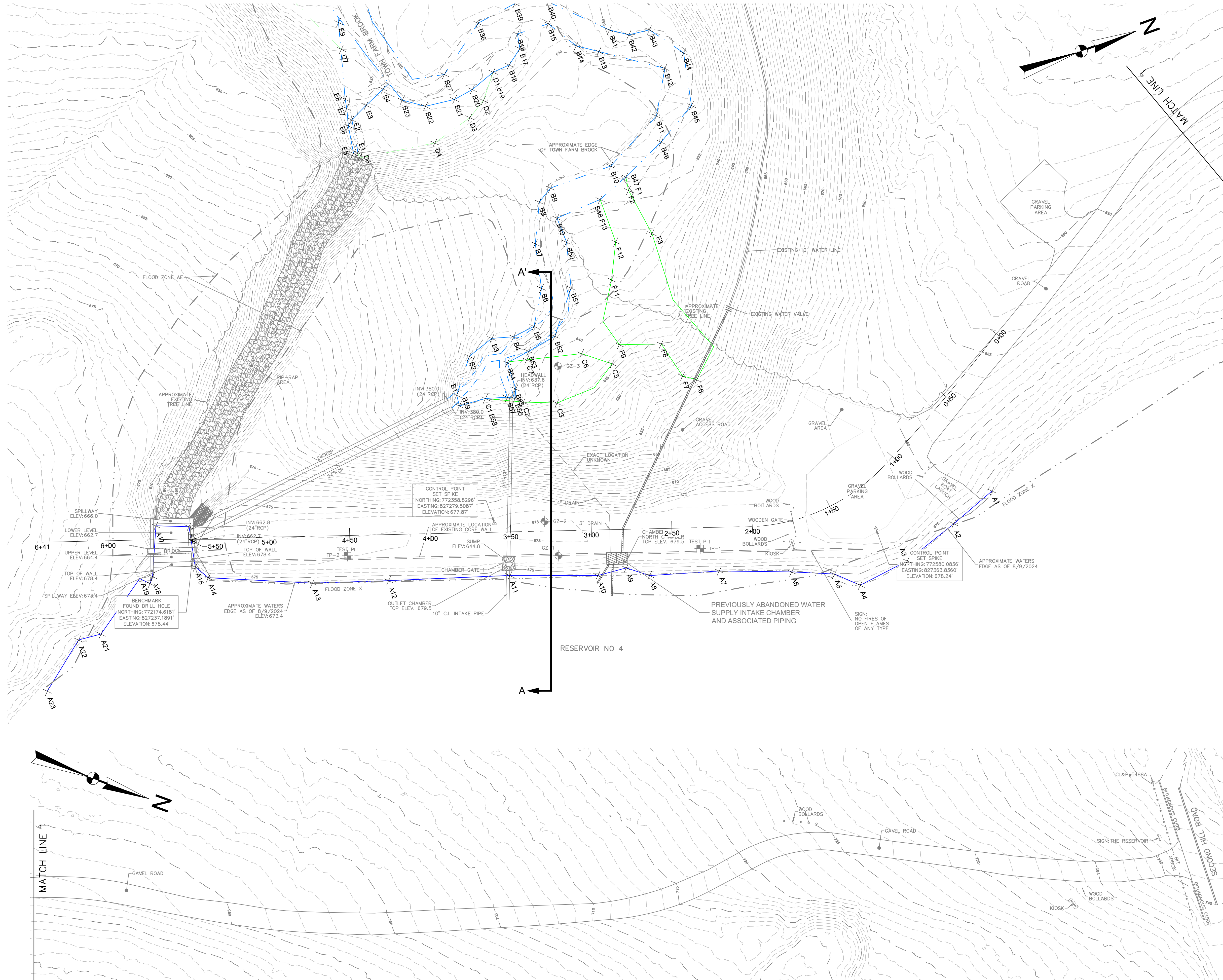
PREPARED FOR:
TOWN OF NEW MILFORD

PROJ MGR: DKR
DESIGNED BY: DKR
DATE: DECEMBER 2025

REVIEWED BY: JFD
DRAWN BY: MJT
PROJECT NO. 05.0047155.01

CHECKED BY: JDA
SCALE: AS NOTED
REVISION NO. 0

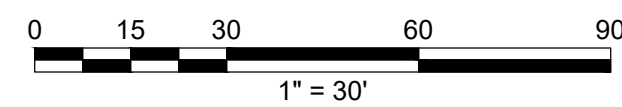
DRAWING NO.
G-3.0
SHEET NO. 3 OF 17



LEGEND

- ORDINARY HIGH WATER (IMPOUNDMENT)
- ORDINARY HIGH WATER (STREAM)
- WETLANDS (FEDERAL AND STATE WETLAND)
- WETLANDS (STATE WETLAND ONLY)
- APPROXIMATE LOCATION OF TEST BORING PERFORMED BY SOIL TESTING, INC. IN JULY 2024.
- APPROXIMATE LOCATION OF TEST PIT PERFORMED BY TOWN OF NEW MILFORD PERSONNEL IN JULY 2024.
- SECTION, SEE C-2.0

- NOTES:**
- THE BASE MAP WAS DEVELOPED FROM ELECTRONIC DRAWING FILE PROVIDED BY ACCURATE LAND SURVEYING, LLO TITLED "NM-24-7 WORK 8-20-2024.DWG", TRANSMITTED TO GZA ON AUGUST 20, 2024 BY THE TOWN OF NEW MILFORD.
 - THE LOCATION AND ELEVATIONS OF THE TEST BORINGS AND TEST PITS WERE APPROXIMATELY DETERMINED BY SURVEY AND/OR TAPE MEASUREMENTS FROM EXISTING TOPOGRAPHIC AND MAN MADE FEATURES. THE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

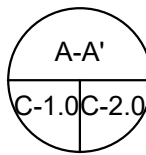
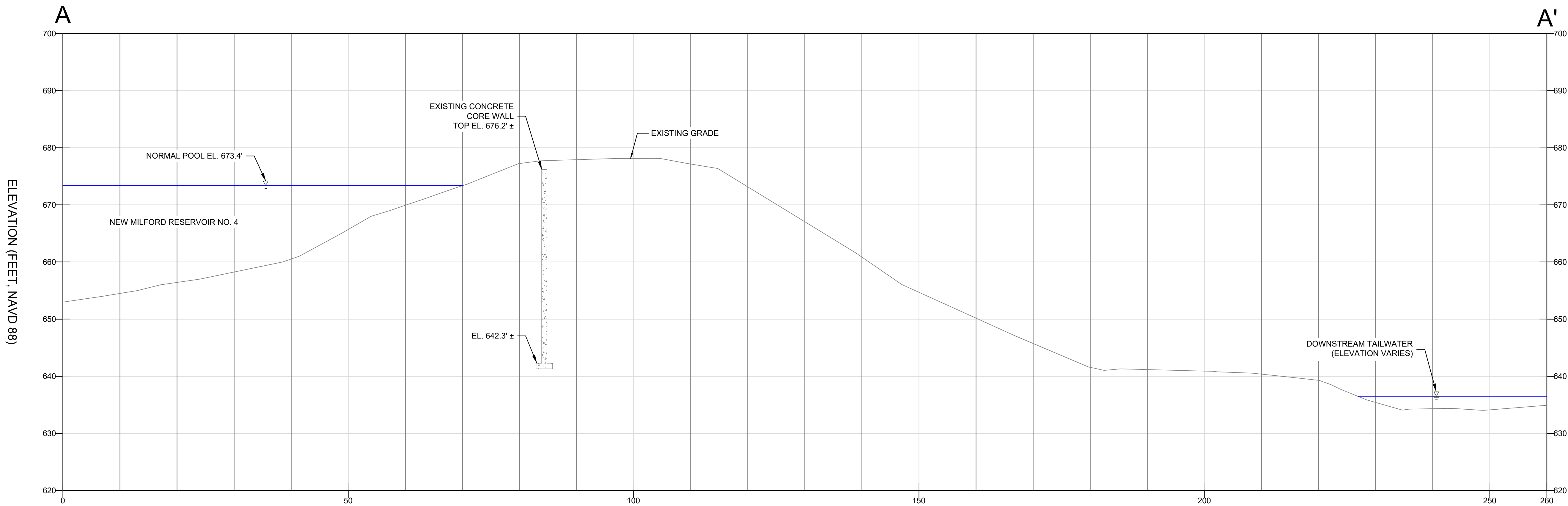


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NEW MILFORD RESERVOIR #4 DAM (CT DAM ID #09604)
NEW MILFORD, CONNECTICUT

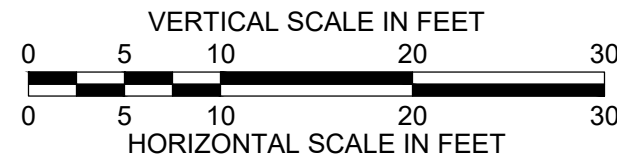
PHASE I EXISTING CONDITIONS PLAN

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: TOWN OF NEW MILFORD	
PROJ MGR: DKR	REVIEWED BY: JFD	CHECKED BY: JDA	DRAWING NO. C-1.0 SHEET NO. 4 OF 17
DESIGNED BY: DKR	DRAWN BY: MJT	SCALE: AS NOTED	
DATE: DECEMBER 2025	PROJECT NO. 05.0047155.01	REVISION NO. 0	



EXISTING DAM EMBANKMENT SECTION

SCALE: 1" = 10'



NOTES:

- UPSTREAM SLOPE BELOW ORDINARY HIGH WATER WAS APPROXIMATED BY TAKING MANUAL DEPTH MEASUREMENTS FROM NORMAL POOL AT 3 TRANSECTS. UPSTREAM SLOPE INTERPOLATED BETWEEN TRANSECTS AND IS APPROXIMATE.
- GROUND SURFACE ABOVE ORDINARY HIGH WATER IS BASED ON TOPOGRAPHIC SURVEY PERFORMED BY ACCURATE LAND SURVEYING, LLC AND PROVIDED TO GZA ON AUGUST 20, 2024 BY THE TOWN OF NEW MILFORD.

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NEW MILFORD RESERVOIR #4 DAM (CT DAM ID #09604)
NEW MILFORD, CONNECTICUT

PHASE I EXISTING CONDITIONS SECTION

PREPARED BY:
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Engineers and Scientists
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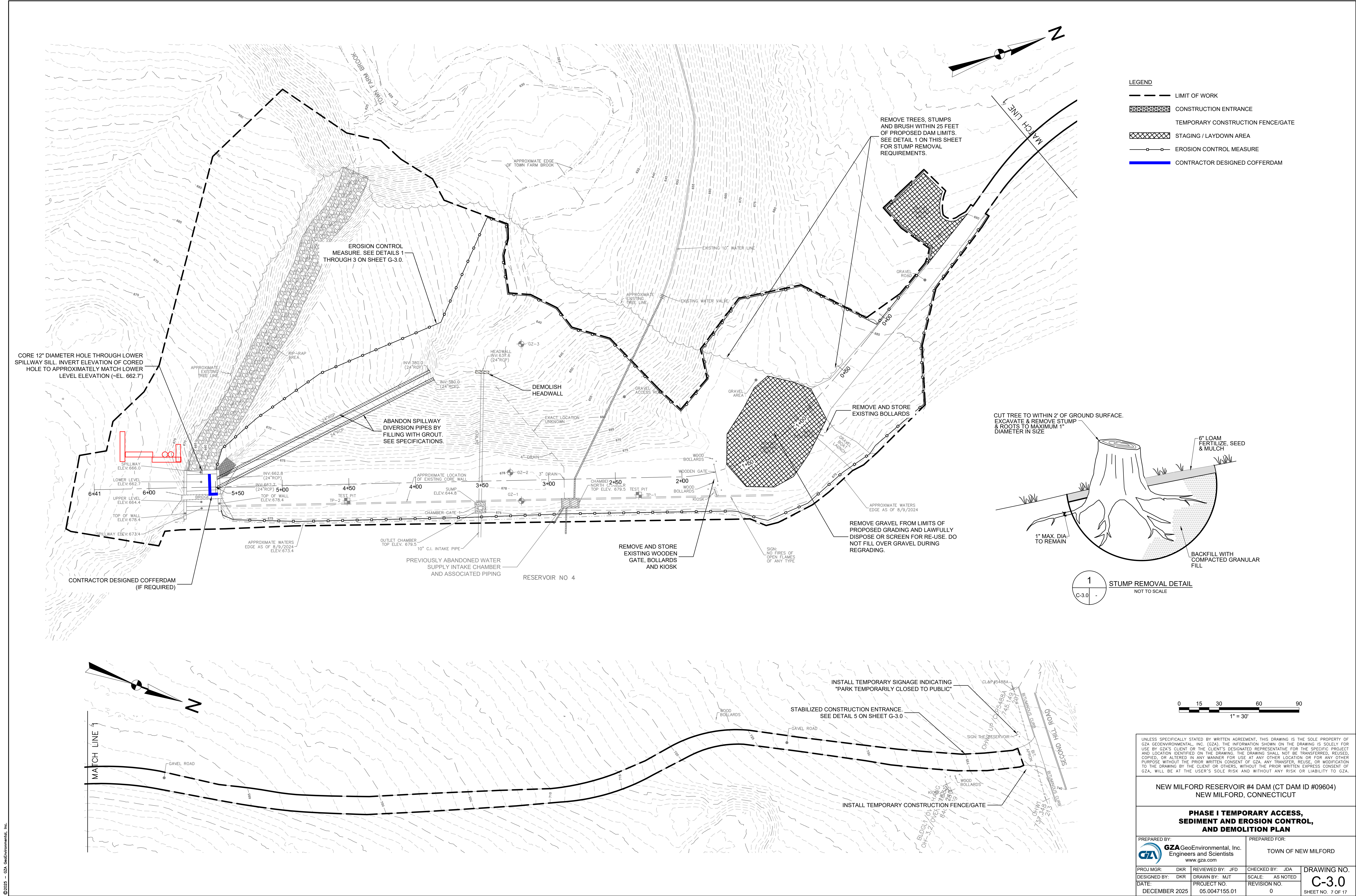
PREPARED FOR:
TOWN OF NEW MILFORD

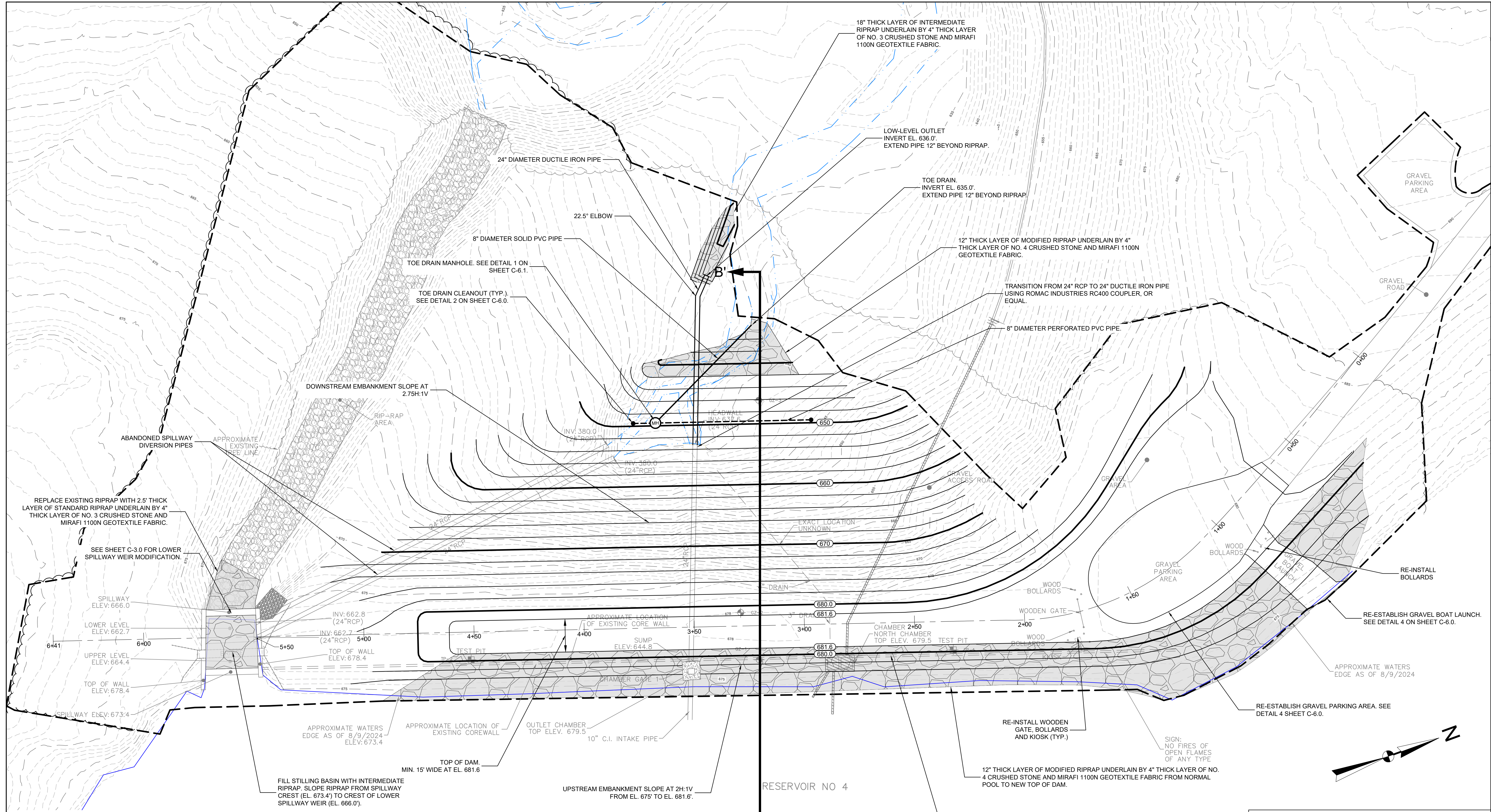
PROJ MGR: DKR
DESIGNED BY: DKR
DATE: DECEMBER 2025

REVIEWED BY: JFD
DRAWN BY: MJT
PROJECT NO. 05.0047155.01

CHECKED BY: JDA
SCALE: AS NOTED
REVISION NO. 0

DRAWING NO.
C-2.0
SHEET NO. 5 OF 17





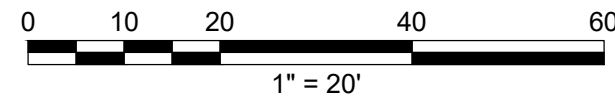
LEGEND

--- LIMIT OF WORK

NEW RIPRAP

B'-B' SECTION. SEE SHEET C-5.0.

B-B'

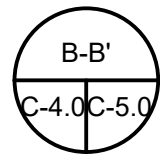
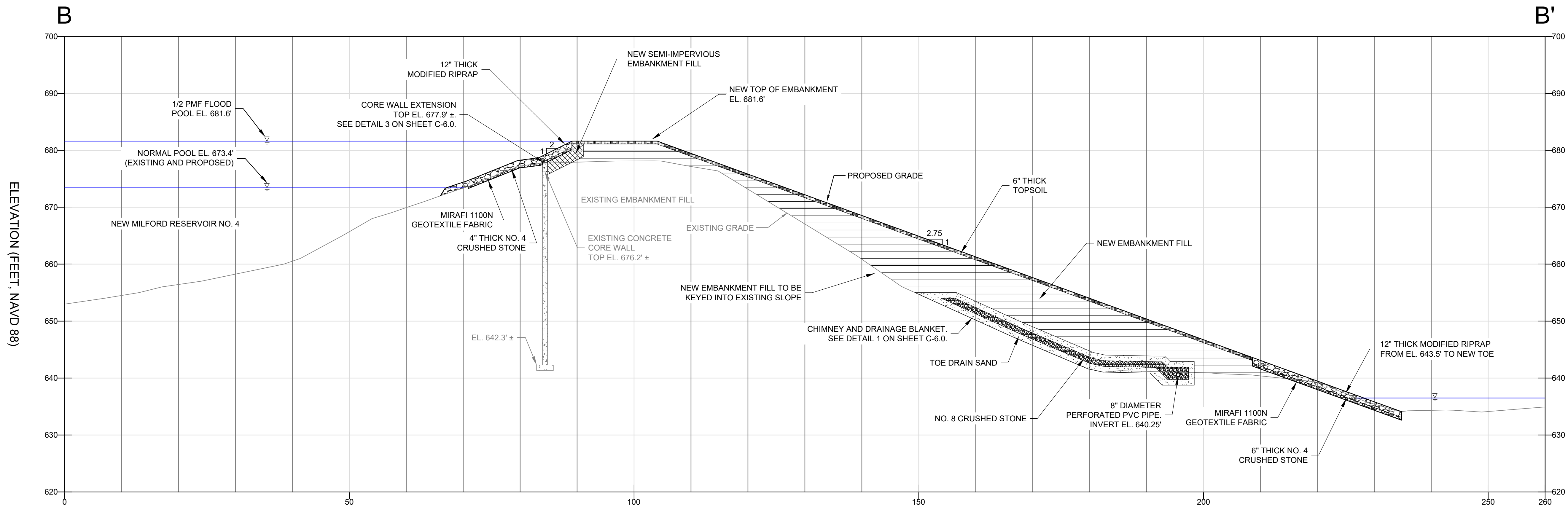


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NEW MILFORD RESERVOIR #4 DAM (CT DAM ID #09604)
NEW MILFORD, CONNECTICUT

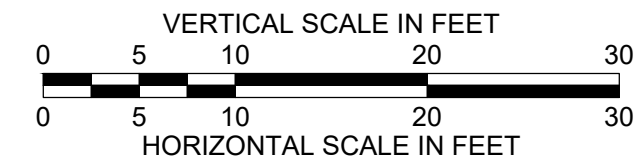
PHASE I PROPOSED GRADING PLAN

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: TOWN OF NEW MILFORD	
PROJ MGR: DKR	REVIEWED BY: JFD	CHECKED BY: JDA	DRAWING NO.
DESIGNED BY: DKR	DRAWN BY: MJT	SCALE: AS NOTED	C-4.0
DATE: DECEMBER 2025	PROJECT NO. 05.0047155.01	REVISION NO. 0	SHEET NO. 8 OF 17



PROPOSED DAM EMBANKMENT SECTION

SCALE: 1"=10'



LEGEND

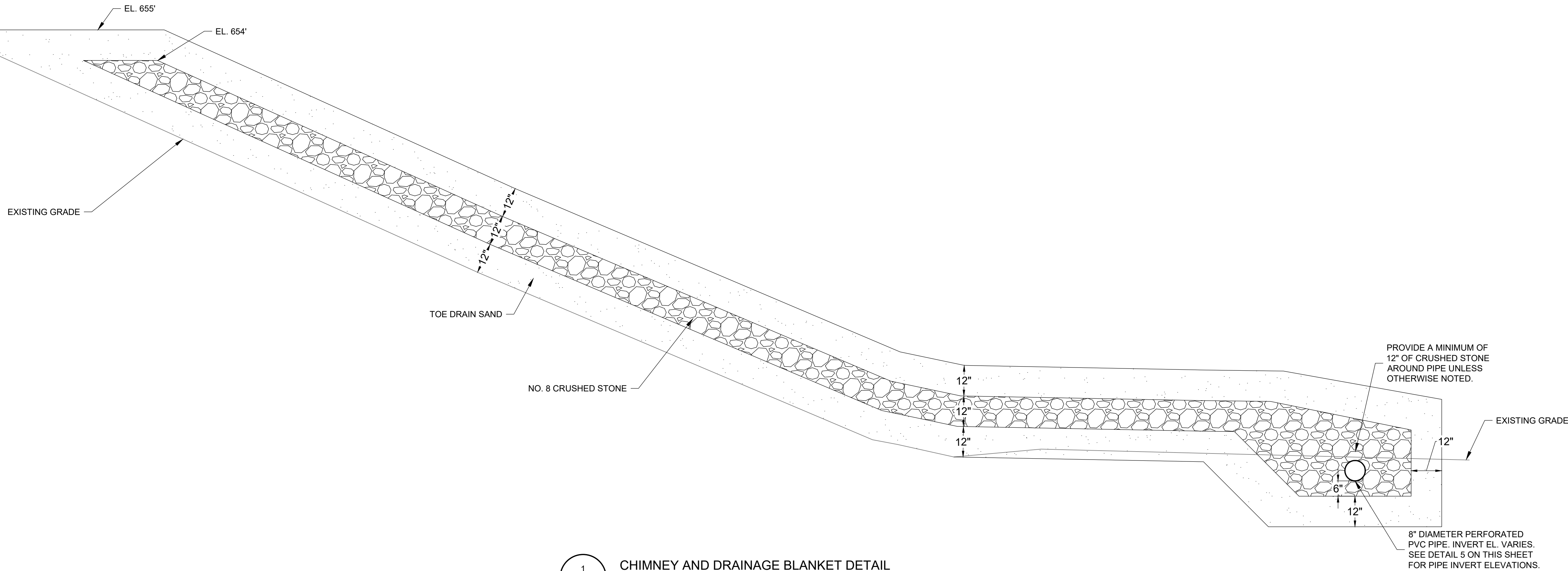
- NEW EMBANKMENT FILL
- NEW NO. 4 CRUSHED STONE
- NEW MODIFIED RIPRAP
- NEW SEMI-IMPERVIOUS EMBANKMENT FILL
- NEW TOPSOIL
- NEW TOE DRAIN SAND
- NEW NO. 8 CRUSHED STONE

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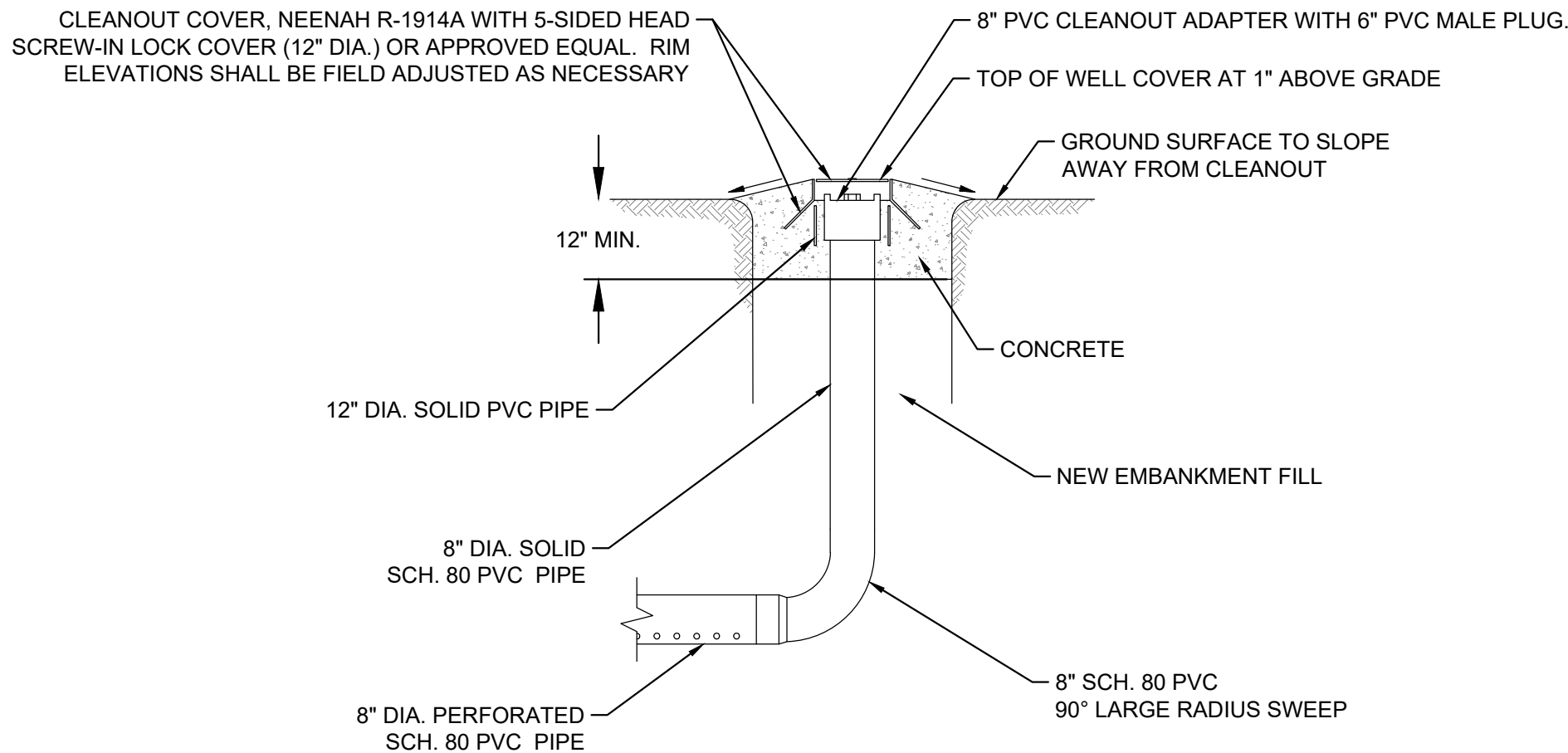
NEW MILFORD RESERVOIR #4 DAM (CT DAM ID #09604)
NEW MILFORD, CONNECTICUT

PHASE I PROPOSED CONDITIONS SECTION

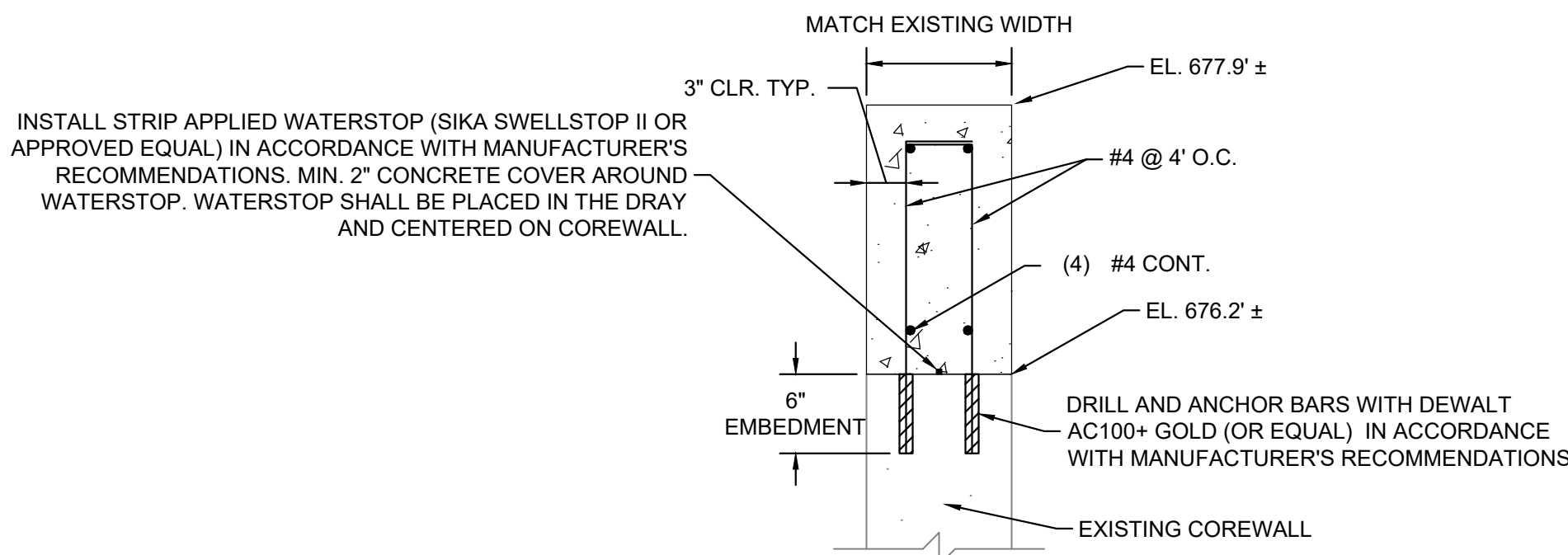
PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com			PREPARED FOR: TOWN OF NEW MILFORD		
PROJ MGR: DKR		REVIEWED BY: JFD		CHECKED BY: JDA	
DESIGNED BY: DKR		DRAWN BY: MJT		SCALE: AS NOTED	
DATE: DECEMBER 2025		PROJECT NO. 05.0047155.01		REVISION NO. 0	
DRAWING NO. C-5.0 SHEET NO. 9 OF 17					



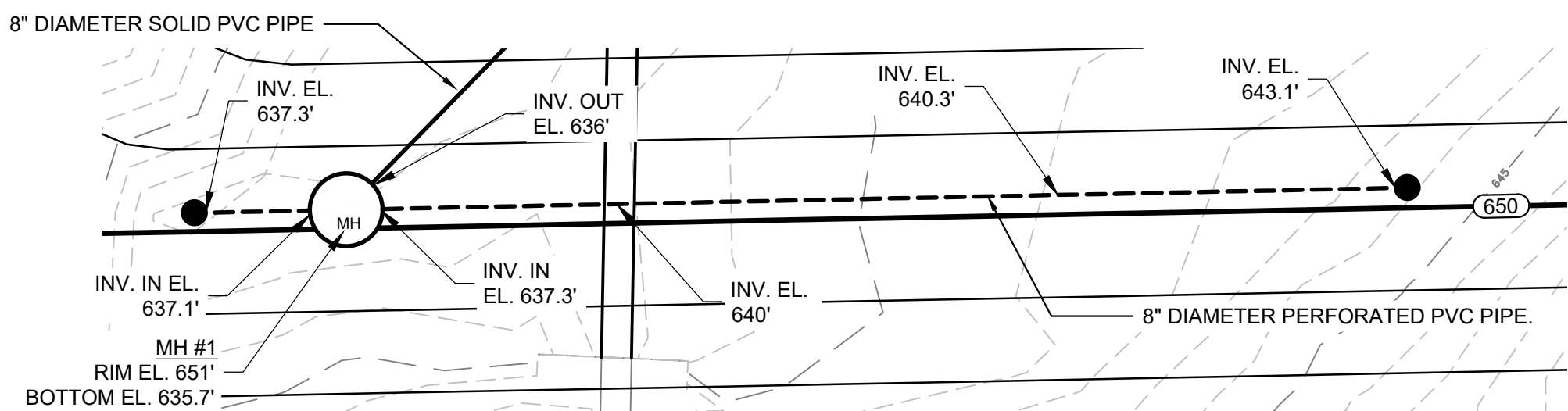
1 CHIMNEY AND DRAINAGE BLANKET DETAIL
SCALE: 1"=2'



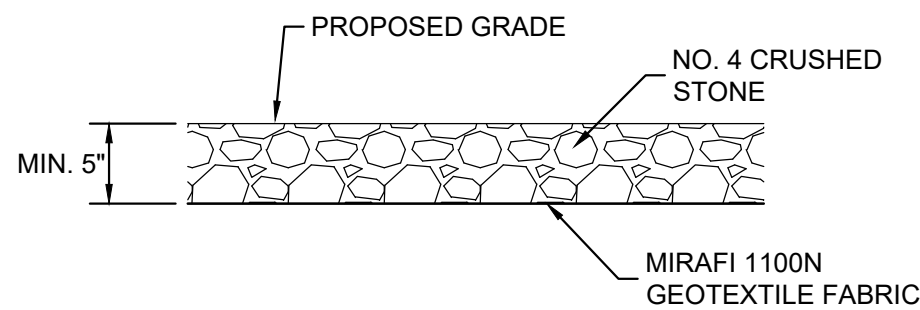
2 TOE DRAIN CLEANOUT
NOT TO SCALE



3 COREWALL EXTENSION
SCALE: 1" = 1'

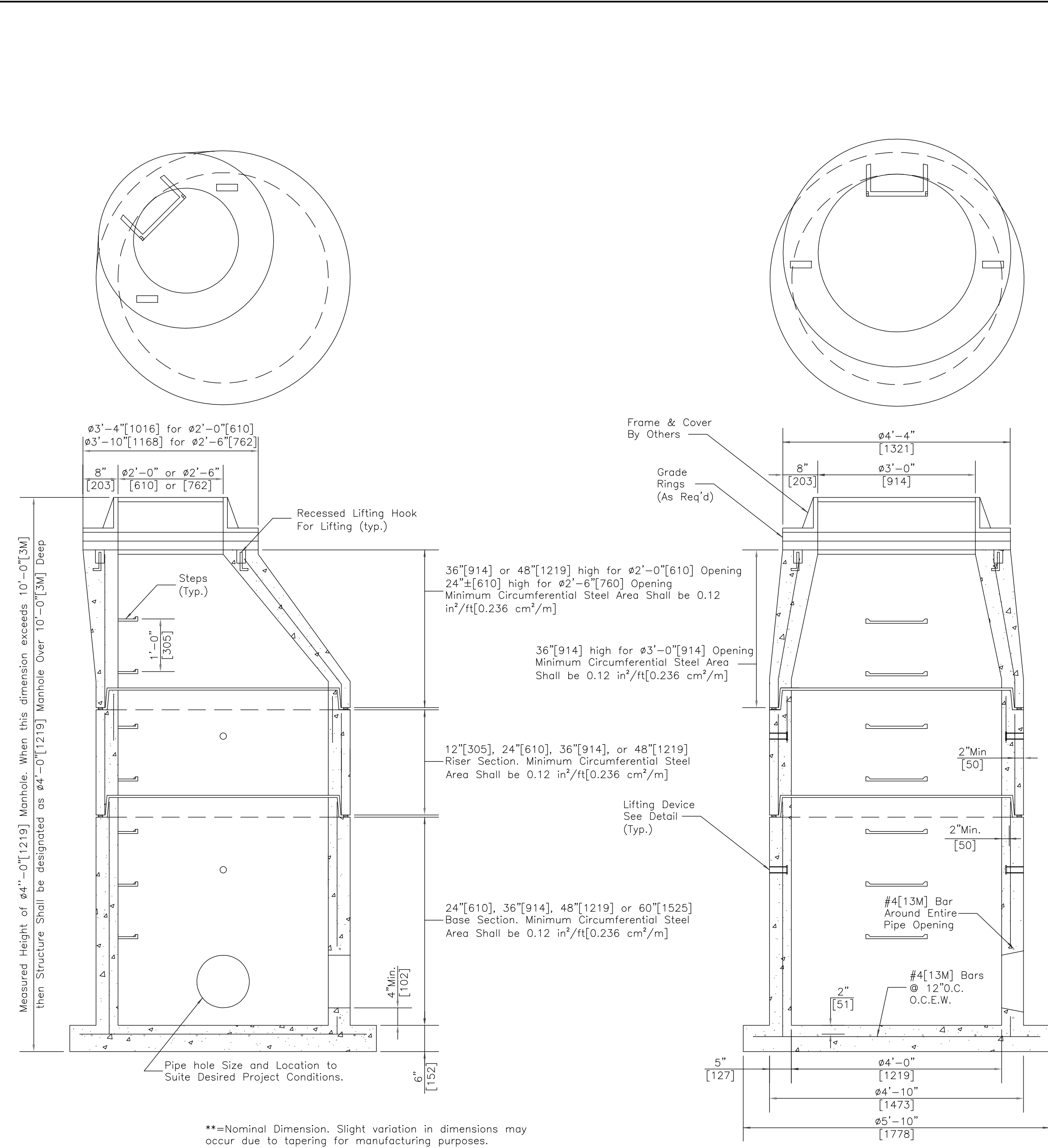


5 TOE DRAIN AND MANHOLE ELEVATIONS
SCALE: 1"=10'



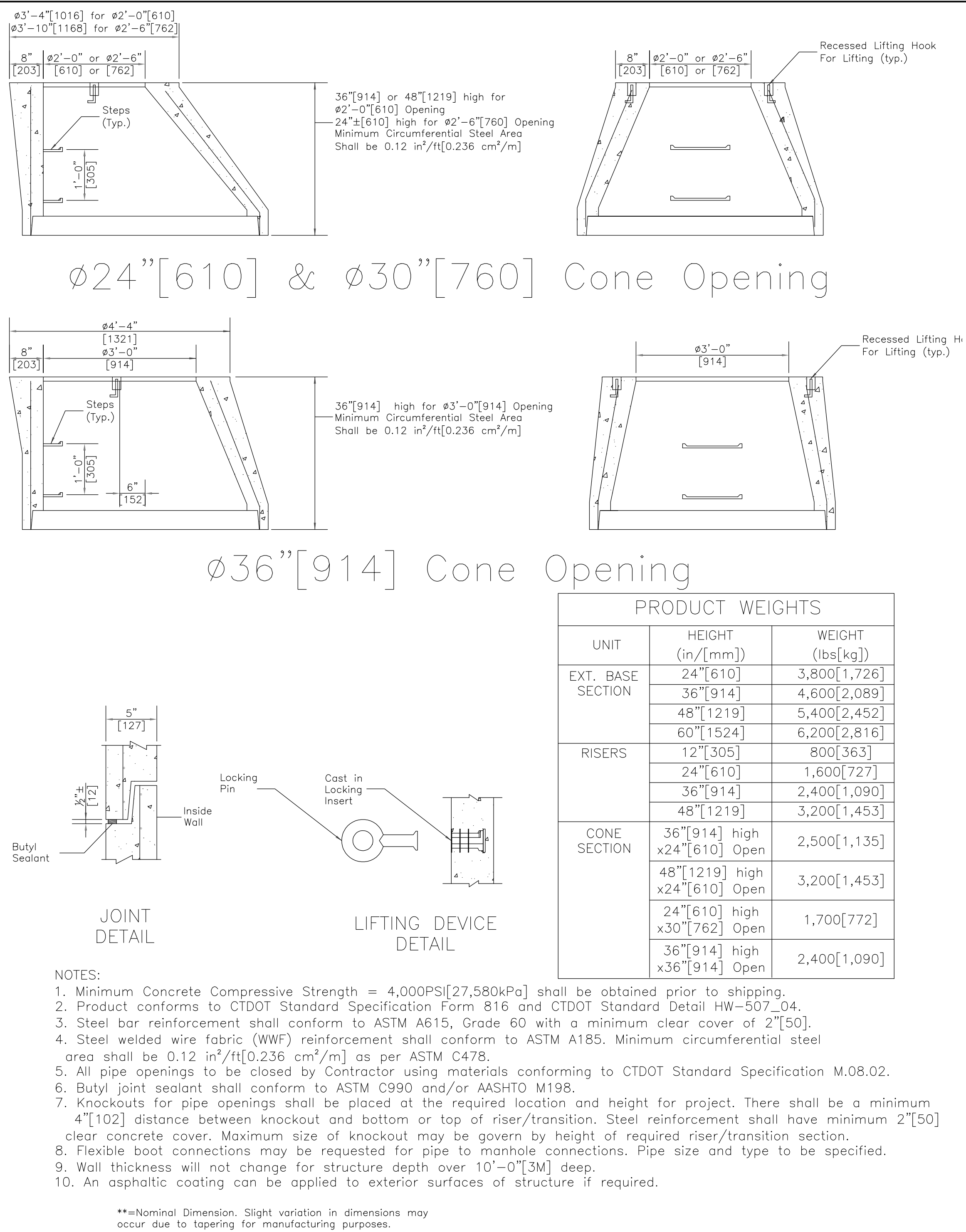
4 GRAVEL PARKING AND BOAT LAUNCH RAMP
SCALE: 1" = 1'

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NEW MILFORD RESERVOIR #4 DAM (CT DAM ID #09604) NEW MILFORD, CONNECTICUT			
PHASE I DETAILS			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: TOWN OF NEW MILFORD	
PROJ MGR: DKR	REVIEWED BY: JFD	CHECKED BY: JDA	DRAWING NO.
DESIGNED BY: DKR	DRAWN BY: MJT	SCALE: AS NOTED	C-6.0
DATE: DECEMBER 2025	PROJECT NO. 05.0047155.01	REVISION NO. 0	SHEET NO. 11 OF 17



- NOTES:
- DRAWING SHOWS TYPICAL MANHOLE DETAILS. FINAL DESIGN, FABRICATION, AND SELECTION OF MANHOLE STRUCTURE BY CONTRACTOR IN ACCORDANCE WITH SPECIFICATIONS.
 - NOT ALL DETAILS OR DIMENSIONS REQUIRED TO FABRICATE MANHOLE ARE SHOWN. FINAL DESIGN AND SHOP DRAWINGS BY CONTRACTOR SHALL SHOW EVERYTHING REQUIRED TO FABRICATE, CONSTRUCT, AND INSTALL MANHOLE.
 - REFER TO SHEETS NOS. C-4.0 AND C-6.0 FOR ADDITIONAL DETAILS REGARDING MANHOLE RIM ELEVATION, BOTTOM (FLOOR) ELEVATION, INVERT IN ELEVATIONS AND INVERT OUT ELEVATION.

1 TYPICAL MANHOLE DETAILS
C-4.0 C-6.0 NOT TO SCALE

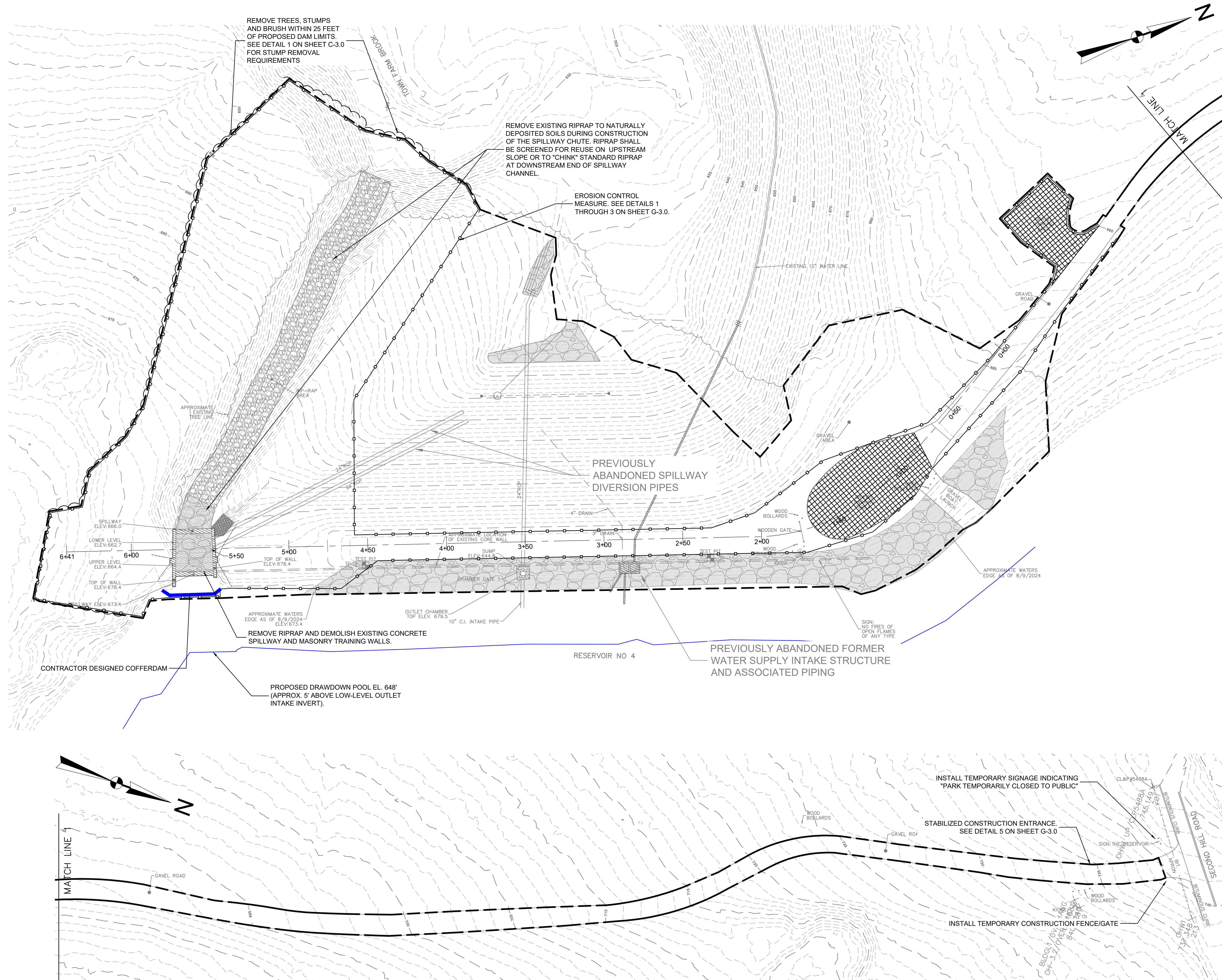


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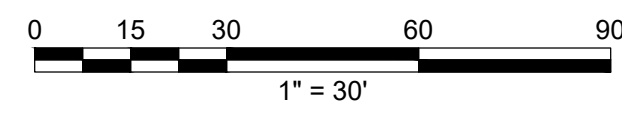
NEW MILFORD RESERVOIR #4 DAM (CT DAM ID #09604)
NEW MILFORD, CONNECTICUT

PHASE I DETAILS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: TOWN OF NEW MILFORD	
PROJ MGR: DKR	REVIEWED BY: JFD	CHECKED BY: JDA	DRAWING NO.
DESIGNED BY: DKR	DRAWN BY: MJT	SCALE: AS NOTED	C-6.1
DATE: DECEMBER 2025	PROJECT NO. 05.0047155.01	REVISION NO. 0	
			SHEET NO. 11 OF 17

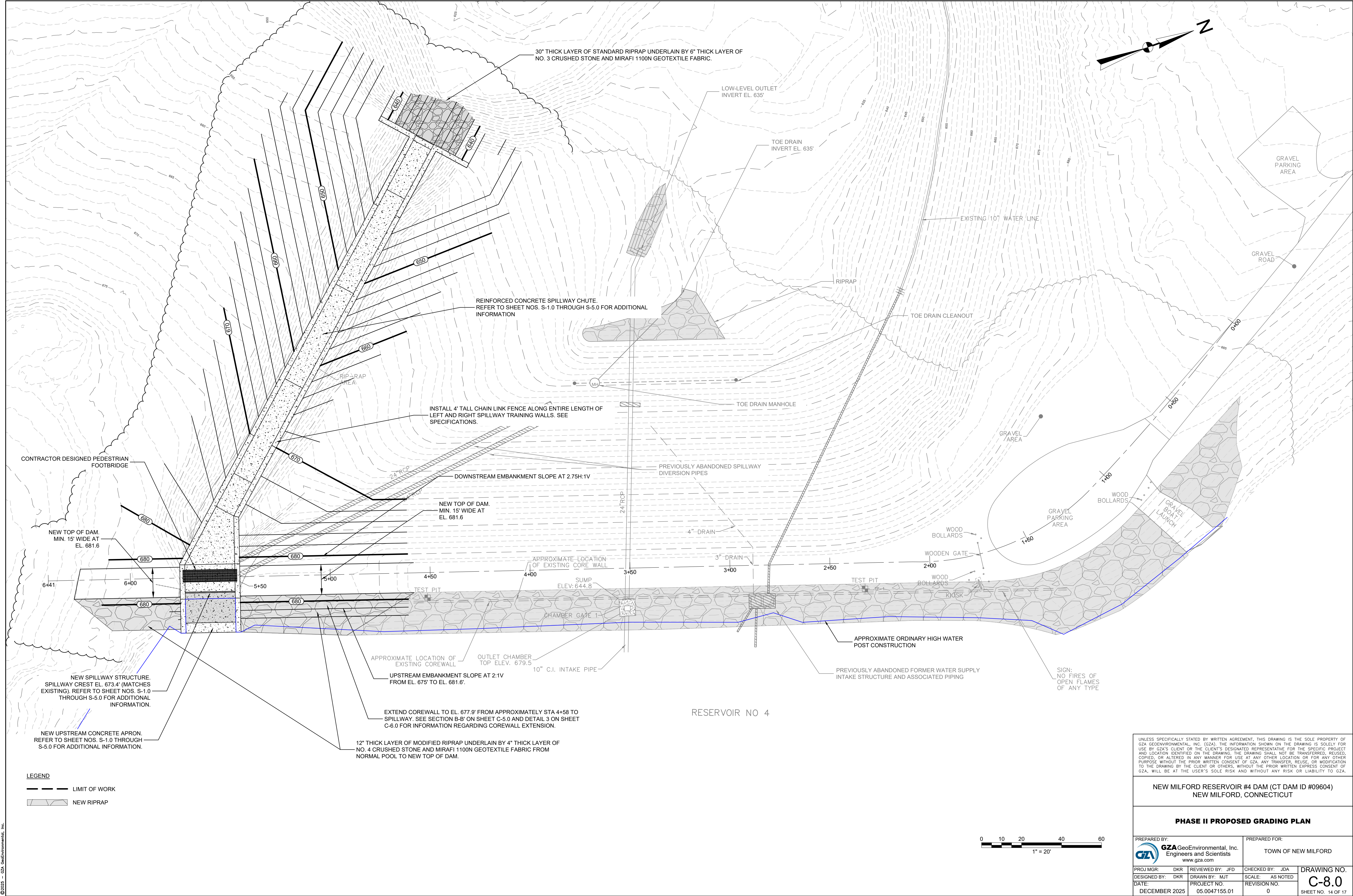


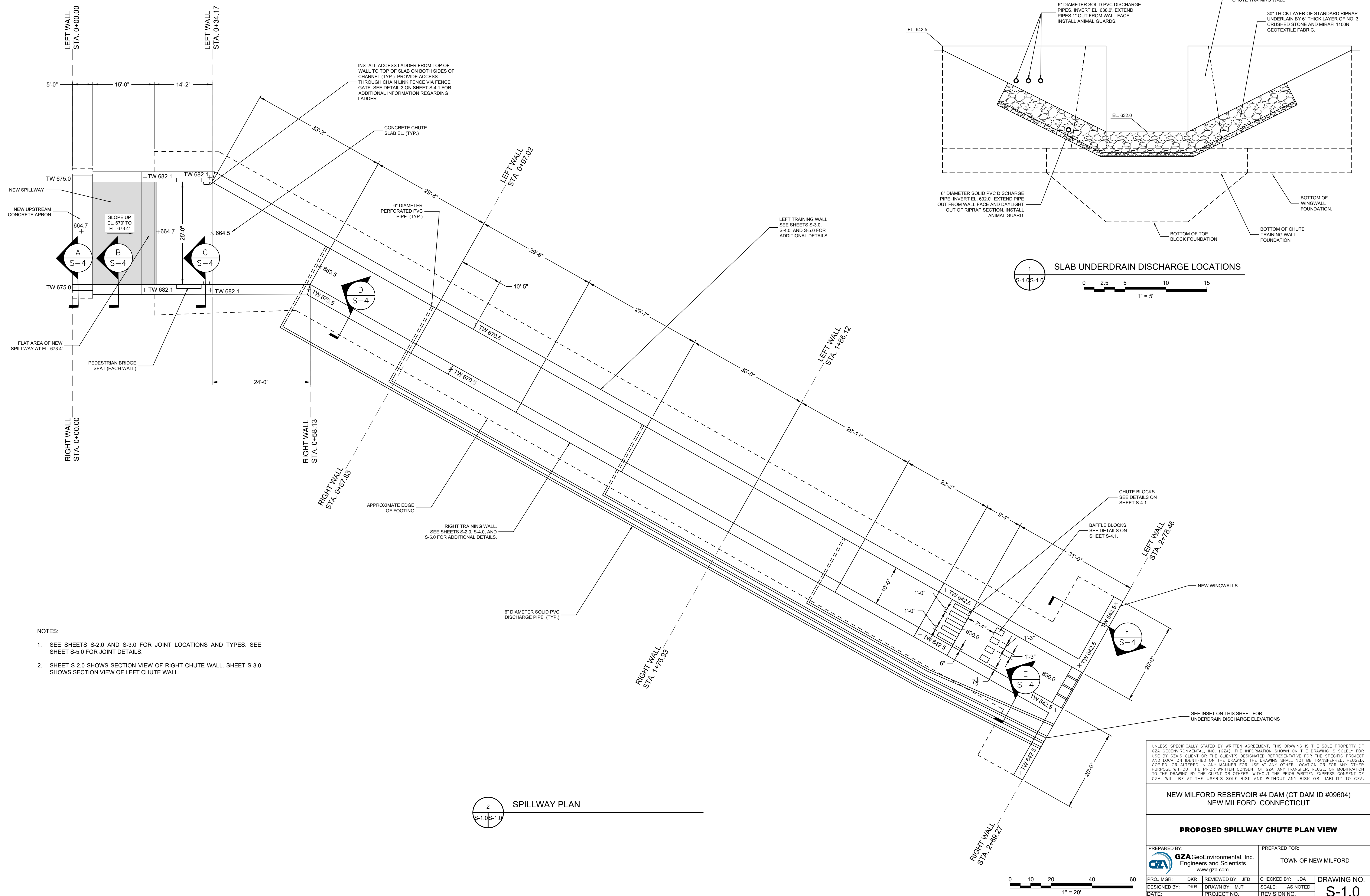
- LEGEND
- PROPOSED LIMIT OF WORK
 - PROPOSED STAGING AREA
 - EROSION CONTROL MEASURE
 - CONTRACTOR DESIGNED COFFERDAM
 - TEMPORARY CONSTRUCTION FENCE/GATE

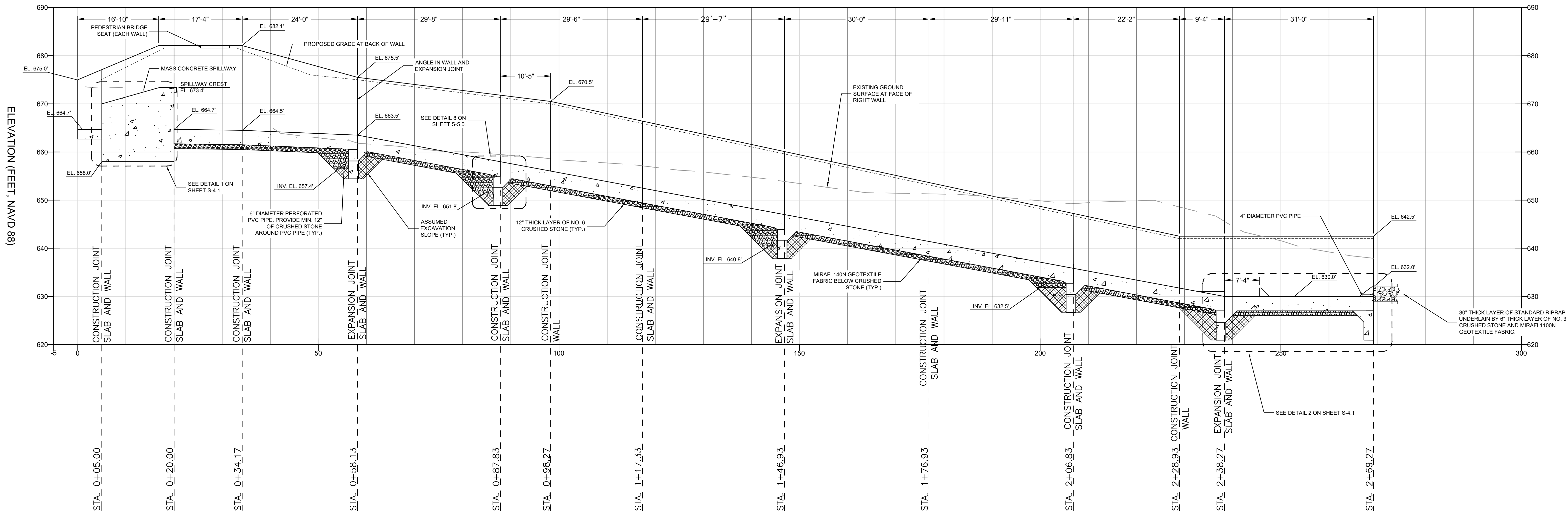


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NEW MILFORD RESERVOIR #4 DAM (CT DAM ID #09604) NEW MILFORD, CONNECTICUT			
PHASE II TEMPORARY ACCESS, SEDIMENT AND EROSION CONTROL, AND DEMOLITION PLAN			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: TOWN OF NEW MILFORD	
PROJ MGR: DKR	REVIEWED BY: JFD	CHECKED BY: JDA	DRAWING NO. C-7.0
DESIGNED BY: DKR	DRAWN BY: MJT	SCALE: AS NOTED	SHEET NO. 7 OF 17
DATE: DECEMBER 2025	PROJECT NO. 05.0047155.01	REVISION NO. 0	







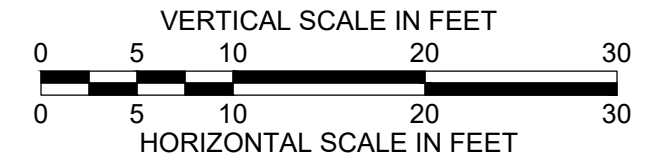
LEGEND

NEW NO. 6 CRUSHED STONE

NEW EMBANKMENT FILL

1
S-1.0 S-2.0

RIGHT SIDE CHANNEL WALL

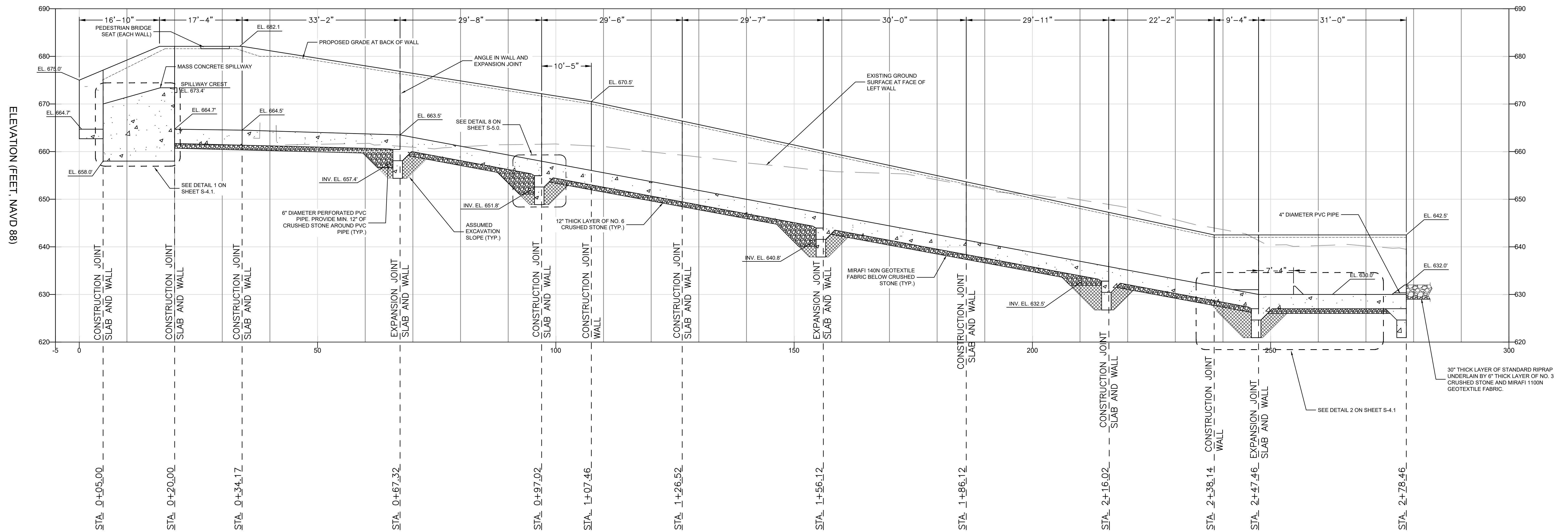


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NEW MILFORD RESERVOIR #4 DAM (CT DAM ID #09604)
NEW MILFORD, CONNECTICUT

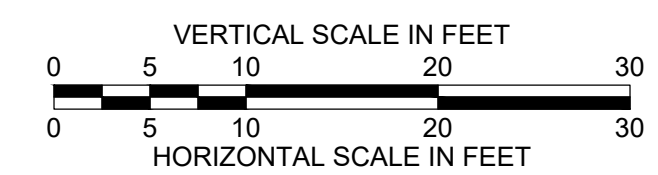
PHASE II PROPOSED RIGHT SPILLWAY CHUTE SECTION

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: TOWN OF NEW MILFORD
PROJ MGR: DKR DESIGNED BY: DKR DATE: DECEMBER 2025	REVIEWED BY: JFD DRAWN BY: MJT PROJECT NO.: 05.0047155.01
CHECKED BY: JDA SCALE: AS NOTED REVISION NO.: 0	DRAWING NO.: S-2.0 SHEET NO.



LEGEND

1 LEFT SIDE CHANNEL WALL
S-1.0 S-3.0



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NEW MILFORD RESERVOIR #4 DAM (CT DAM ID #09604)
NEW MILFORD, CONNECTICUT

PHASE II PROPOSED LEFT SPILLWAY CHUTE SECTION

PREPARED BY:

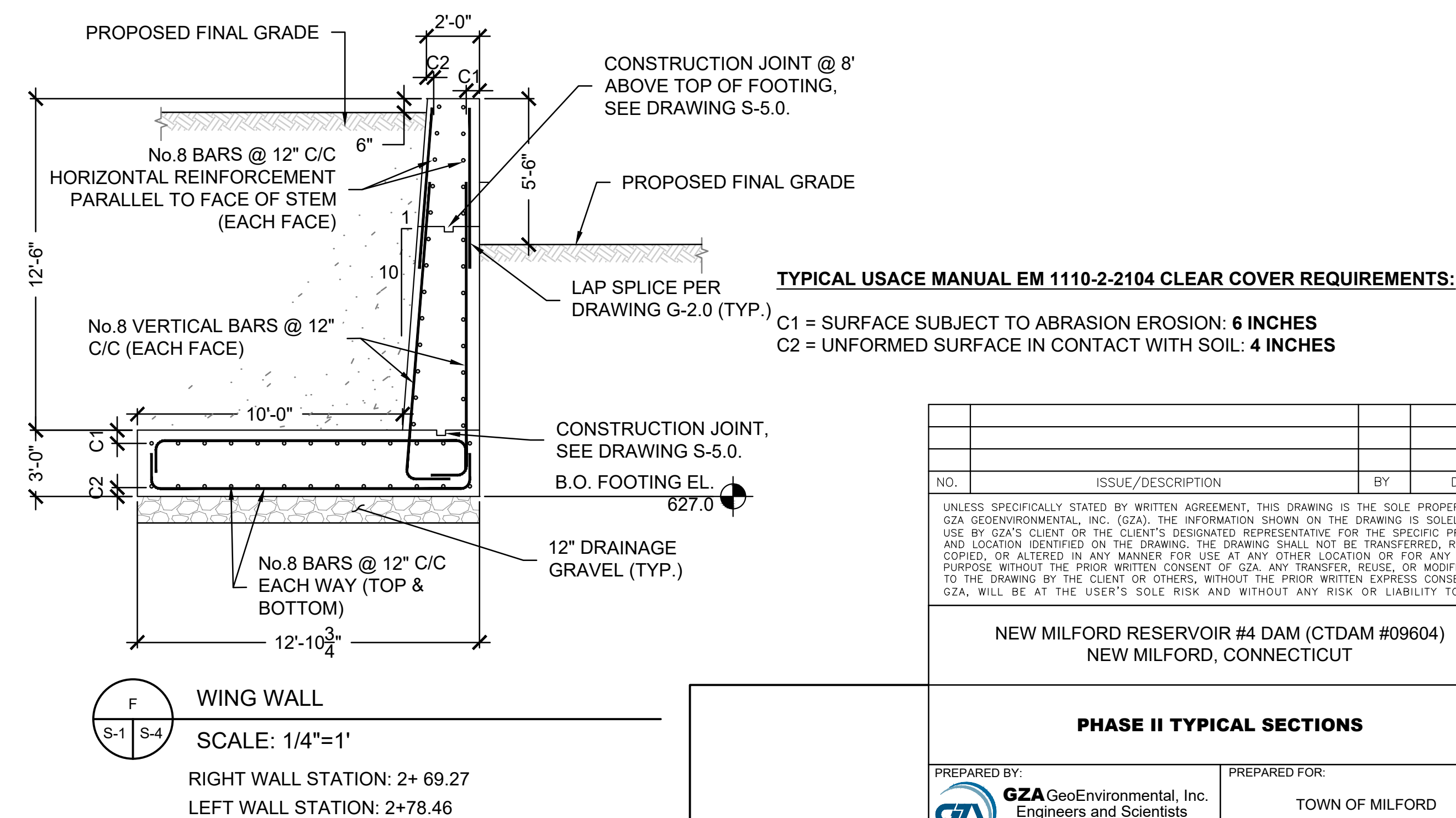
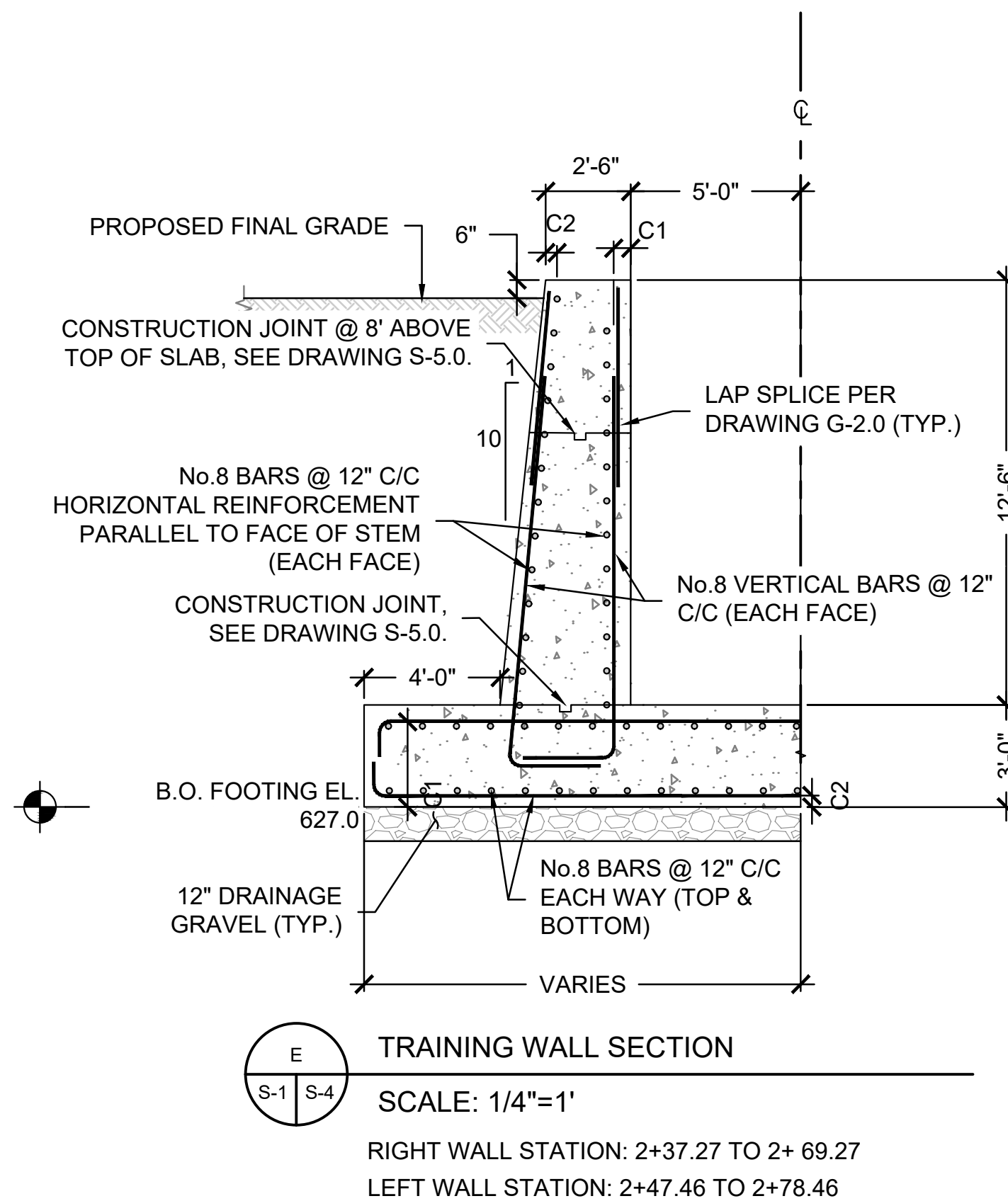
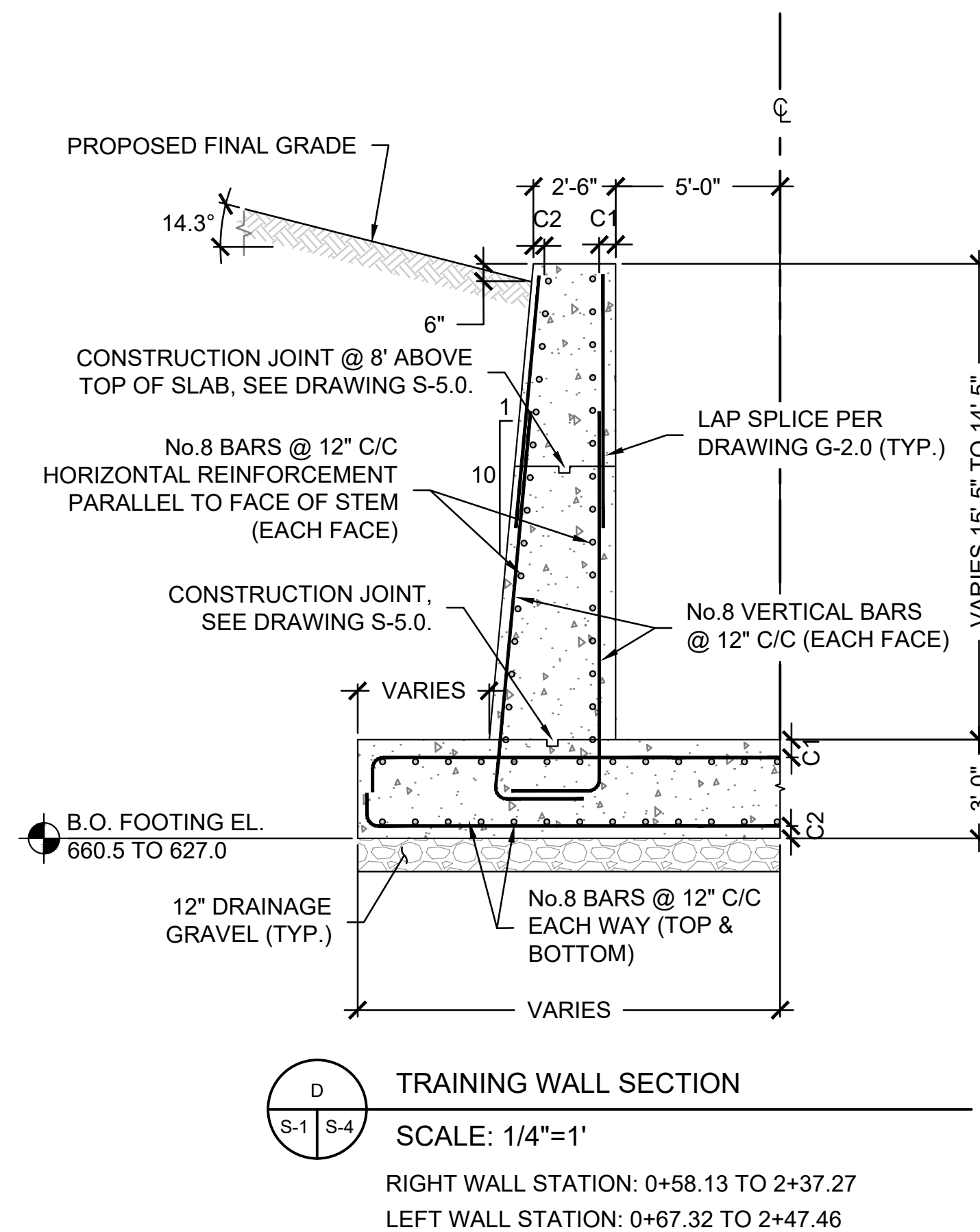
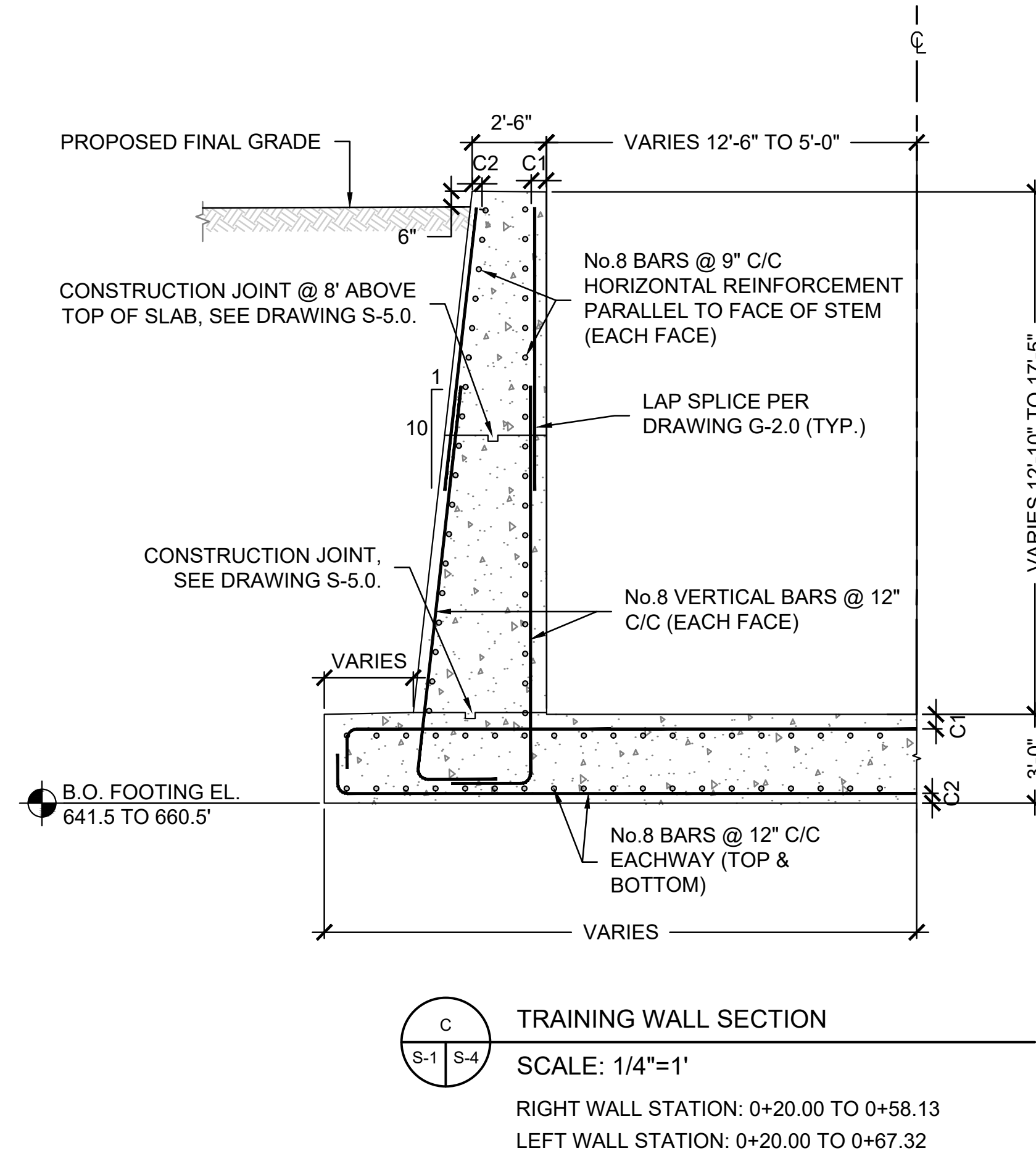
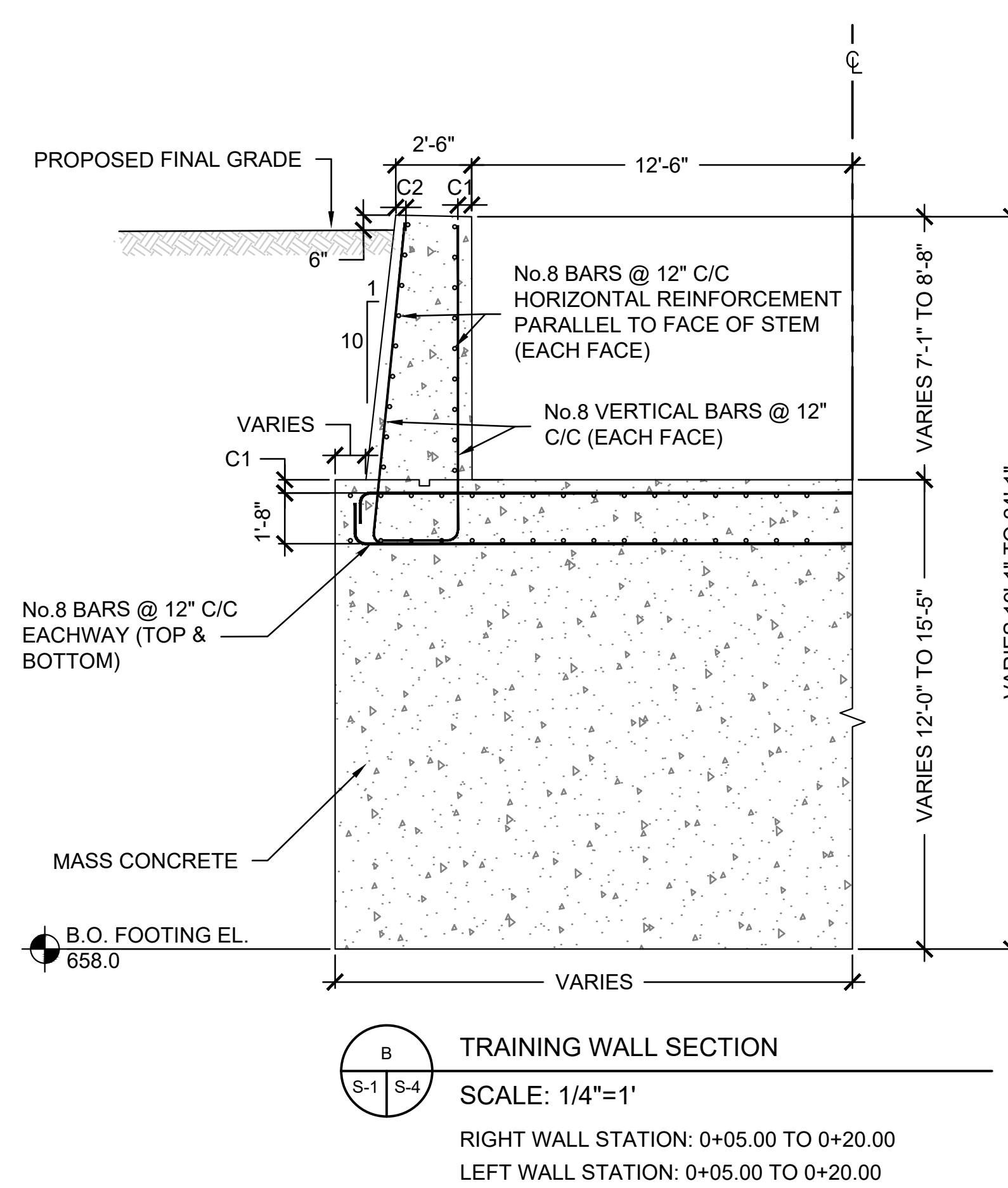
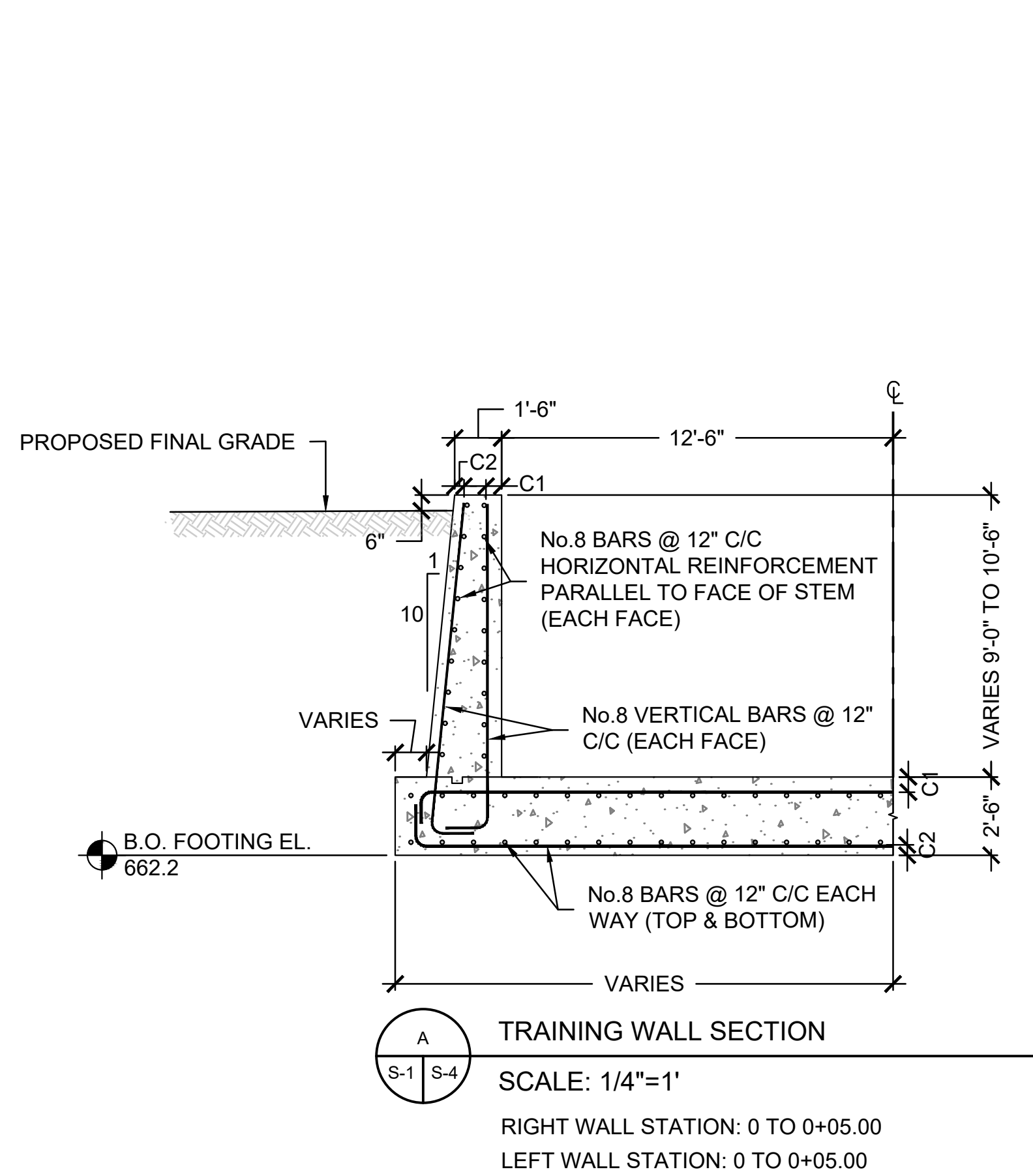
 **GZA** GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:

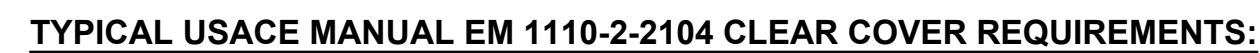
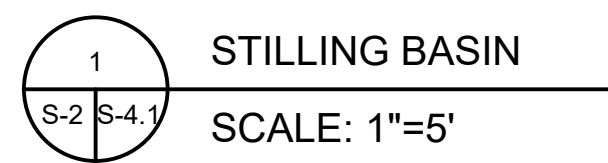
TOWN OF NEW MILFORD

PROJ MGR: DKR	REVIEWED BY: JFD	CHECKED BY: JDA	DRAWING NO. S-3.0 SHEET NO.
DESIGNED BY: DKR	DRAWN BY: MJT	SCALE: AS NOTED	
DATE: DECEMBER 2025	PROJECT NO. 05.0047155.01	REVISION NO. 0	

© 2025 - GZA GeoEnvironmental, Inc. C:\Users\j\Non-Architectural Projects\05.0047155.01 - Milford Dam Spillway Civil\Drawings\GZA_GEA\05.0047155.01 - Milford Dam, 12.18.2025.dwg [1-4.0] January 07, 2026 - 4:57pm daniel.conway

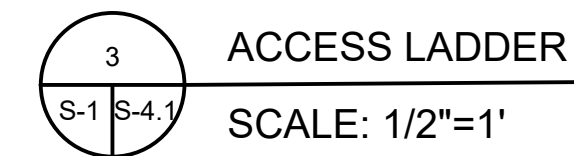


NO.	ISSUE/DESCRIPTION	BY	DATE
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NEW MILFORD RESERVOIR #4 DAM (CTDAM #09604) NEW MILFORD, CONNECTICUT			
PHASE II TYPICAL SECTIONS			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: TOWN OF MILFORD	
PROJ MGR: AC	REVIEWED BY: AC	CHECKED BY: ATV	DRAWING S-4.0 SHEET NO.
DESIGNED BY: ND	DRAWN BY: ND	SCALE: AS NOTED	
DATE: DECEMBER 2025	PROJECT NO. 05.0047155.01	REVISION NO. -	

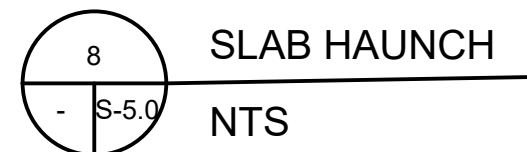
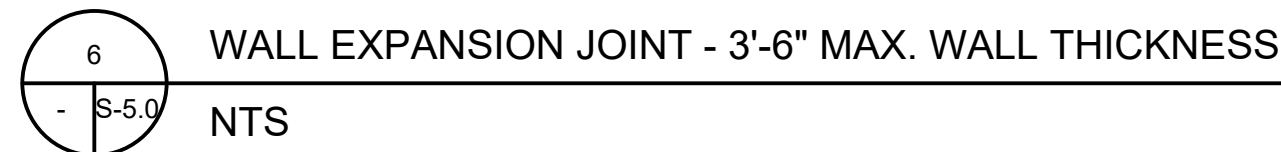
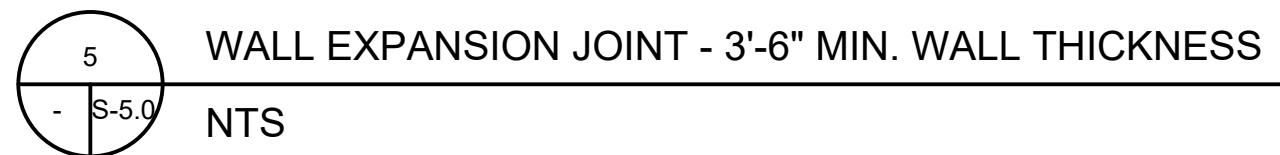
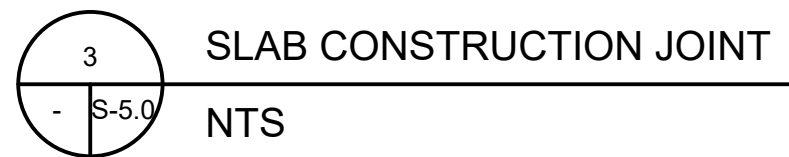


Technical drawing of a new galvanized steel ladder. The drawing includes a front view on the left and a side view on the right. The front view shows a vertical ladder with multiple rungs. The side view shows the ladder's profile with rungs and vertical supports. Callouts indicate 'MULTIPLE SECTIONS OF LADDER, AS NEEDED' and 'NEW GALVANIZED STEEL LADDER'. A 'TYPICAL SECTION VIEW' of the ladder's cross-section is shown below the main views.

- NOTES:**
1. TYPICAL LADDER AND TYPICAL DIMENSIONS SHOWN. FINAL DESIGN, FABRICATION, AND SIZING BY CONTRACTOR. SEE SPECIFICATION 05510.
 2. NOT ALL DETAILS, DIMENSIONS, OR CONNECTIONS REQUIRED TO FABRICATE AND CONNECT THE LADDER ARE SHOWN. FINAL DESIGN AND SHOP DRAWINGS BY CONTRACTOR SHALL SHOW EVERYTHING REQUIRED TO FABRICATE, CONSTRUCT, INSTALL, AND CONNECT LADDER PIECES TO ONE ANOTHER (IF REQUIRED) AND TO INTAKE.



NO.		ISSUE/DESCRIPTION		BY		DATE	
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NEW MILFORD RESERVOIR #4 DAM (CTDAM #09604) NEW MILFORD, CONNECTICUT							
PHASE II TYPICAL SECTIONS							
PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com				PREPARED FOR: TOWN OF MILFORD			
PROJ MGR: AC DESIGNED BY: ND		REVIEWED BY: AC DRAWN BY: ND		CHECKED BY: AD SCALE: AS NOTED		DRAWING S-4.1 SHEET NO.	
DATE: DECEMBER 2025		PROJECT NO: 05.0047155.01		REVISION NO: -			



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| | | | |
| NO. | ISSUE/DESCRIPTION | BY | DATE |

NEW MILFORD RESERVOIR #4 DAM (CTDAM #09604)
NEW MILFORD, CONNECTICUT

PREPARED BY:

 GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PROJ MGR: AC	REVIEWED BY: AC
DESIGNED BY: ND	DRAWN BY: ND
DATE: DECEMBER 2025	PROJECT NO. 05.0047155.01

S-5.0